

BOBBY JINDAL
GOVERNOR



HAROLD LEGGETT, PH.D.
SECRETARY

State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

Certified Mail No.

Agency Interest No. 160213
Activity No.: PER20080001

Mr. Tom Mara
Lake Charles Cogeneration, LLC
315 Park Avenue South, 20th Floor
New York, NY 10010-3607

RE: Part 70 operating permit, Lake Charles Gasification Facility, Lake Charles Cogeneration, LLC, Lake Charles, Calcasieu Parish, Louisiana

Dear Mr. Mara:

This is to inform you that the permit for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 operating permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the _____ of _____, 2014, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and Agency Interest number cited above should be referenced in future correspondence regarding this facility.

Done this _____ day of _____, 2009.

Permit No.: 0520-00411-V0

Sincerely,

Cheryl Sonnier Nolan
Assistant Secretary

CSN/DCN
cc: EPA Region 6

PUBLIC NOTICE
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)
LAKE CHARLES COGENERATION, LLC
LAKE CHARLES GASIFICATION FACILITY

PUBLIC HEARING AND REQUEST FOR PUBLIC COMMENT
ON THE PROPOSED PART 70 AIR OPERATING PERMIT, THE PSD PERMIT
& THE ASSOCIATED ENVIRONMENTAL ASSESSMENT STATEMENT

The LDEQ, Office of Environmental Services, will conduct a public hearing to receive comments on a Part 70 Air Operating Permit, the PSD Permit and the associated Environmental Assessment Statement (EAS) for Lake Charles Cogeneration, LLC, 315 Park Avenue South, 20th Floor, New York, NY 10010-3607 for the Lake Charles Gasification Facility. **The facility is to be located off LA Highway 108 near Bayou d'Inde Road adjacent to the Port of Lake Charles, Lake Charles, Calcasieu Parish.**

The hearing will be held on Thursday, January 8, 2009, beginning at 6:00 p.m., at the Westlake Council Chambers Meeting Room, 1001 Mulberry Street, Westlake, LA 70669. During the hearing, all interested persons will have an opportunity to comment on the proposed permit.

Lake Charles Cogeneration, LLC requested a Part 70 air operating permit and a PSD permit for the proposed Lake Charles Gasification Facility. The facility will convert approximately 7400 tons per day of petroleum coke to 120 MM scf/day of methane (Substitute Natural Gas (SNG)) and 2000 tons per day of sulfuric acid. Other secondary products from the facility will include argon, carbon dioxide, slag, and electricity for internal use.

These permits were processed as expedited permits in accordance with LAC 33:I.Chapter 18.

Permitted emissions in tons per year will be as follows:

Pollutant	Emissions
PM/PM ₁₀	33.38
SO ₂	262.27
NO _x	218.76
CO	701.00
VOC	24.69
H ₂ SO ₄	55.83
H ₂ S	0.86
NH ₃	0.49

A technical review of the working draft of the proposed permit was submitted to the facility representative and the LDEQ Surveillance Division. Any remarks received during the technical review will be addressed in the "Worksheet for Technical Review of Working Draft of Proposed Permit". All remarks received by LDEQ are included in the record that is available for public review.

All interested persons will be afforded the opportunity to comment on the proposed Part 70 air operating permit, the PSD permit and the EAS.

The EAS submitted by the applicant addresses avoidance of potential and real environmental effects, balancing of social and economic benefits against environmental impact costs, and alternative sites, projects, and mitigative measures.

Written comments or written requests for notification of the final permit decision regarding this permit action may also be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests for notification must be received by 12:30 p.m., Monday, January 12, 2009.** Written comments will be considered prior to a final permit decision.

LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The permit applications, the proposed permits, the statement of basis, and the EAS are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5th Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). **The available information can also be accessed electronically on the Electronic Document Management System (EDMS) on the DEQ public website at www.deq.louisiana.gov.**

Additional copies may be reviewed at the Calcasieu Parish Library, Headquarters, 301 West Claude Street, Lake Charles, LA 70605, the Westlake Branch, 937 Mulberry Street, Westlake, LA 70669 and the Sulphur Regional Branch, 1160 Cypress Street, Sulphur, LA 70663.

Previous notices have been published in the Lake Charles American Press on Friday, November 14, 2008.

Individuals with a disability, who need an accommodation in order to participate in the public hearing, should contact Ms. Laura Ambeau at the above address or by phone at (225) 219-3277.

Inquiries or requests for additional information regarding these permit actions should be directed to Dan Nguyen, LDEQ, Air Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3118.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at deqmailistrequest@la.gov or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

Permit public notices including electronic access to the proposed permits and statement of basis can be viewed at the LDEQ permits public notice webpage at <http://www.deq.louisiana.gov/apps/pubNotice/default.asp> and general information related to the public participation in permitting activities can be viewed at www.deq.louisiana.gov/portal/tabid/2198/Default.aspx.

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at www.doa.louisiana.gov/oes/listservpage/ldeq_pn_listserv.htm.

All correspondence should specify AI Number 160213,

0520-00411-V0	PER20080001
PSD-LA-742	PER20080002

Scheduled Publication Date: November 20, 2008

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04/30/07

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**LAKE CHARLES GASIFICATION FACILITY
AGENCY INTEREST NO. 160213
LAKE CHARLES COGENERATION, LLC
LAKE CHARLES, CALCASIEU PARISH, LOUISIANA**

I. Background

Lake Charles Cogeneration, LLC proposed to construct the Lake Charles Gasification Facility near Lake Charles, Calcasieu Parish, Louisiana. The facility will utilize petroleum coke from the Port of Lake Charles to produce substitute natural gas (SNG), sulfuric acid, and other by-products. This is the initial Part 70 operating permit for the facility.

II. Origin

A permit application dated September 2, 2008 and additional information dated November 4, 2008 were submitted requesting a Part 70 operating permit.

III. Description

Lake Charles Gasification Facility will convert approximately 7400 tons per day of petroleum coke to 120 MM scf/day of methane (substitute natural gas or SNG), 2000 tons per day of sulfuric acid. Other secondary products from the facility will include argon, carbon dioxide, slag, and electricity for internal use.

Petroleum coke from the Port of Lake Charles will be received and fed to five gasifiers to produce syngas which will be quenched, purified, gasification shifted, and then converted to SNG. A portion (~ 75%) of the purified syngas will be sent to the shift conversion reactors, where carbon monoxide reacts with water vapor to produce carbon dioxide and hydrogen. The stream will be mixed with other portion (~ 25%) of syngas. The mixture will be fed to the methanation process to produce SNG. Excess carbon dioxide will be collected for enhanced oil recovery (EOR) or sent to the thermal oxidizer to destroy any residual of carbon monoxide, hydrogen sulfide, carbonyl sulfide, and methanol.

Sour gas will be removed from syngas by methanol absorption at low temperature and high pressure (Lurgi Rectisol Selective Acid Gas Removal). Methanol will be regenerated for reuse. Sour gas will be incinerated at the sulfuric acid plants to produce sulfur dioxide which will be converted to sulfur trioxide and then sulfuric acid.

To provide oxygen for the quench gasifiers and the coke/fluxant slurry, Lake Charles cogeneration will operate two air separation units. Argon will be collected as a byproduct of the units and will be sold. Heat released from various sections of the facility will be recovered to produce steam for electric generator steam turbines.

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AGENCY INTEREST NO. 160213
LAKE CHARLES COGENERATION, LLC
LAKE CHARLES, CALCASIEU PARISH, LOUISIANA**

Permitted emissions in tons per year will be as follows:

Pollutant	Emissions
PM/PM ₁₀	33.38
SO ₂	262.27
NO _x	218.76
CO	701.00
VOC	24.69
H ₂ SO ₄	55.83
H ₂ S	0.86
NH ₃	0.49

IV. Type of Review

This application was reviewed for compliance with the Louisiana Part 70 operating permit program, Louisiana Air Quality Regulations, NESHAP, NSPS, and PSD. The facility is major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51. Carbon monoxide (CO), nitrogen oxides (NO_x), and sulfur dioxide (SO₂) emissions from the proposed facility will be more than the PSD major source threshold. Emissions of particulate matter (PM/PM₁₀) and sulfuric acid will be more than their respective PSD significance levels. A PSD analysis was performed for PM/PM₁₀, SO₂, NO_x, CO, and sulfuric acid emissions and is documented in the Permit PSD-LA-742. Requirements of PSD-LA-742 are incorporated into this permit.

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

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**LAKE CHARLES GASIFICATION FACILITY
AGENCY INTEREST NO. 160213
LAKE CHARLES COGENERATION, LLC
LAKE CHARLES, CALCASIEU PARISH, LOUISIANA**

VI. Public Notice

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, and in the *American Press*, Lake Charles, on XXX, and was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List. The permit application, the proposed permit, and the Statement of Basis were submitted to the Calcasieu Parish Library – Headquarters. The proposed permit and the Statement of Basis were submitted to US EPA Region 6. All comments will be considered prior to a permit decision.

VII. Effects on Ambient Air

Emissions from the proposed facility will not cause or contribute to any National Ambient Air Standards (NAAQS) or Louisiana Ambient Air Standards (AAS) exceedances.

Dispersion Model Used: AERMOD (screen)

Pollutant	Averaging Period	Calculated Maximum Ground Level Concentration ($\mu\text{g}/\text{m}^3$)	NAAQS or (AAS) ($\mu\text{g}/\text{m}^3$)
PM/PM ₁₀	24 hour	2.63	150
	Annual	0.44	50
SO ₂	3 hour	24.05	1300
	24 hour	4.65	365
	Annual	0.64	80
NO ₂	Annual	0.95	100
CO	1 hour	81.87	40,000
	8-hour	50.1	10,000
H ₂ SO ₄	8-hour	13.36	(23.8)
H ₂ S	8-hour	14.72	(330)
COS	8-hour	0.107	(582)

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**LAKE CHARLES GASIFICATION FACILITY
AGENCY INTEREST NO. 160213
LAKE CHARLES COGENERATION, LLC
LAKE CHARLES, CALCASIEU PARISH, LOUISIANA**

VIII. General Condition XVII Activities

This permit does not include any General Condition XVII Activities

IX. Insignificant Activities (LAC 33:III.501.B.5)

ID No.:	Description	Citation
TK019	Recycle Solids Tank (aqueous, coke/slag)	A.10
TK020A	Slurry Run Tank (aqueous, coke/salt)	A.10
TK020B	Slurry Run Tank (aqueous, coke/salt)	A.10
TK020C	Slurry Run Tank (aqueous, coke/salt)	A.10
TK020D	Slurry Run Tank (aqueous, coke/salt)	A.10
TK020E	Slurry Run Tank (aqueous, coke/salt)	A.10
TK021A	Grey Water Tank (aqueous, salt)	A.10
TK021B	Grey Water Tank (aqueous, salt)	A.10
TK022	Slurry Additive Tank (aqueous, ammonium lignosulfate)	A.10
TK029	Diesel Tank, < 10,000 gallons	A.3
TK031	Glycol Tank, < 10,000	A.3

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

**LAKE CHARLES GASIFICATION FACILITY
AGENCY INTEREST NO. 160213
LAKE CHARLES COGENERATION, LLC
LAKE CHARLES, CALCASIEU PARISH, LOUISIANA**

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.						LAC 33:III. Chapter							
		509	2103	2107	2111	2113	5*	9	11	13	15	29	51*	52	56
EQT0001	F001 - Hydrocarbon / Gasifiers (A-E) Start-up Flare	1					1		1	1	1	1	1		
EQT0002	F002 - Acid Gas Flare	1					1		1	1	1	1	1	3	
EQT0003	H003 - Methanation Start-up Heater	1							1	1	1	1	1	3	
EQT0004	H004 - Shift Reactor Start-up Heater	1							1	1	1	1	1	3	
EQT0005	B005 - Auxiliary Boiler	1							1	1	1	1	1	3	
EQT0006	B006 - Steam Superheaters (A and B)	1							1	1	1	1	1	3	
EQT0007	T007 - AGR CO ₂ Regenerative Thermal Oxidizers (A and B)	1							1	1	2	1			
EQT0008	H008A - Gasifier Start-up Preheater Burner	1							1	1	3				
EQT0009	H008B - Gasifier Start-up Preheater Burner	1							1	1	3				
EQT0010	H008C - Gasifier Start-up Preheater Burner	1							1	1	3				
EQT0011	H008D - Gasifier Start-up Preheater Burner	1							1	1	3				
EQT0012	H008E - Gasifier Start-up Preheater Burner	1							1	1	3				
EQT0013	GE009A - Emergency Diesel Power Generator	1							1	1	3				
EQT0014	GE009B - Emergency Diesel Power Generator	1							1	1	3				
EQT0015	PE010A - Fire Water Diesel Pump	1							1	1	3				
EQT0016	PE010B - Fire Water Diesel Pump	1							1	1	3				
EQT0017	PE010C - Fire Water Diesel Pump	1							1	1	3				
EQT0018	CH011A - Coke Handling System - System 1A	1							1	1	1	1	1	3	
EQT0019	CH011B - Coke Handling System (Backup) - System 1B	1							1	1	1	1	1	3	
EQT0020	SO12A - Bottom Ash Silo and Day Bins	1							1	1	1	1	1	3	
EQT0021	SO12B - Sand Silo and Sand Day Bins	1							1	1	1	1	1	3	

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

LAKE CHARLES GASIFICATION FACILITY

AGENCY INTEREST NO. 160213

LAKE CHARLES COGENERATION, LLC

LAKE CHARLES, CALCASIEU PARISH, LOUISIANA

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.										LAC 33:III:Chapter				
		509	2103	2107	2111	2113	5*	9	11	13	15	29	51*	52	56	59
EQT0022	ED013A - Rod Mill Air Eductors	1											1			
EQT0023	ED013B - Rod Mill Air Eductors		1										1			
EQT0024	ED013C - Rod Mill Air Eductors		1										1			
EQT0025	ED013D - Rod Mill Air Eductors			1									1			
EQT0026	FV014A - Filter Vacuum Pump Discharge			1									1			
EQT0027	FV014B - Filter Vacuum Pump Discharge			1									1			
EQT0028	SA015A - Wet Sulfuric Acid Unit				1								1	1	2	1
EQT0029	SA015B - Wet Sulfuric Acid Unit				1								1	1	2	1
EQT0030	CT016 - Cooling Water Towers					1							1			
EQT0031	MS017A - ASU Molecular Sieve Regeneration					1							1			
EQT0032	MS017B - ASU Molecular Sieve Regeneration					1							1			
EQT0033	SU023A - Slag Sump												1			
EQT0034	SU023B - Slag Sump												1			
EQT0035	SU023C - Slag Sump												1			
EQT0036	SU023D - Slag Sump												1			
EQT0037	SU023E - Slag Sump												1			
EQT0038	TK024 - Methanol De-Inventory Tank						1						1			
EQT0039	TK025 - Fresh Methanol Storage Tank							1					1			
EQT0040	TK027A - Sulfuric Acid Storage Tank							1					1			
EQT0041	TK027B - Sulfuric Acid Storage Tank							1					1			
EQT0042	TK027C - Sulfuric Acid Storage Tank							1					1			

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

LAKE CHARLES GASIFICATION FACILITY
 AGENCY INTEREST NO. 160213
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 LAKE CHARLES, CALCASIEU PARISH, LOUISIANA

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.						LAC 33:III. Chapter							
		509	2103	2107	2111	2113	5*	9	11	13	15	29	51*	52	56
EQT0043	TK027D - Sulfuric Acid Storage Tank	1												1	
EQT0044	TK027E - Sulfuric Acid Storage Tank	1												1	
EQT0045	TK027F - Sulfuric Acid Storage Tank	1												1	
EQT0046	TK028A - Aqueous Ammonia Tank													1	
EQT0047	TK028B - Aqueous Ammonia Tank													1	
EQT0048	TK030 - Gasoline Tank	1												1	
FUG001	FUG - Fugitive Emissions		1											1	
UNF001	All160213 - Lake Charles Gasification Facility	1			1	1	1	1	1	1	1	1	1	1	1

KEY TO MATRIX

- The regulations indicated above are State Only regulations.
- All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III 501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**LAKE CHARLES GASIFICATION FACILITY****AGENCY INTEREST NO. 160213****LAKE CHARLES COGENERATION, LLC****LAKE CHARLES, CALCASIEU PARISH, LOUISIANA****X. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	40 CFR 60			40 CFR 61			40 CFR 63			40 CFR			
		A	Bb	H	Kb	M	A	F	R	222	S2	64	68	72
EQT0001	F001 - Hydrocarbon / Gasifiers (A-E) Start-up Flare													
EQT0002	F002 - Acid Gas Flare													
EQT0003	H003 - Methanation Start-up Heater	3												
EQT0004	H004 - Shift Reactor Start-up Heater	3												
EQT0005	B005 - Auxilliary Boiler	1		1										
EQT0006	B006 - Steam Superheaters (A and B)	1		1										
EQT0007	TO007 - AGR CO ₂ Regenerative Thermal Oxidizers (A and B)	3												
EQT0008	H008A - Gasifier Start-up Preheater Burner	3												
EQT0009	H008B - Gasifier Start-up Preheater Burner	3												
EQT0010	H008C - Gasifier Start-up Preheater Burner	3												
EQT0011	H008D - Gasifier Start-up Preheater Burner	3												
EQT0012	H008E - Gasifier Start-up Preheater Burner	3												
EQT0013	GE009A - Emergency Diesel Power Generator	1		1										
EQT0014	GE009B - Emergency Diesel Power Generator	1		1										
EQT0015	PE010A - Fire Water Diesel Pump	1		1										
EQT0016	PE010B - Fire Water Diesel Pump	1		1										
EQT0017	PE010C - Fire Water Diesel Pump	1		1										
EQT0018	CH011A - Coke Handling System - System 1A													
EQT0019	CH011B - Coke Handling System (Backup) - System 1B													
EQT0020	SO12A - Bottom Ash Silo and Day Bins													
EQT0021	SO12B - Sand Silo and Sand Day Bins													

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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 LAKE CHARLES, CALCASIEU PARISH, LOUISIANA

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60												40 CFR 61												40 CFR 63																
		A	Bb	H	Kb	III	A	F	M	A	F	R	2222	S2	D4	E8	F2	G4	H8	I2	J4	K8	L2	M4	N8	O2	P4	Q8	R2	S4	T8	U2	V4	W8	X2	Y4	Z8					
EQT0022	ED013A - Rod Mill Air Eductors																																									
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AGENCY INTEREST NO. 160213

LAKE CHARLES COGENERATION, LLC

LAKE CHARLES, CALCASIEU PARISH, LOUISIANA

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60			40 CFR 61			40 CFR 63			40 CFR			
		A	D _b	H	K _b	M	A	F	R	ZZZZ	S ₂	D ₄	B ₈	T ₂
EQT0043	TK027D - Sulfuric Acid Storage Tank													
EQT0044	TK027E - Sulfuric Acid Storage Tank													
EQT0045	TK027F - Sulfuric Acid Storage Tank													
EQT0046	TK028A - Aqueous Ammonia Tank													
EQT0047	TK028B - Aqueous Ammonia Tank													
EQT0048	TK030 - Gasoline Tank													
FUG0001	FUG - Fugitive Emissions													
UNF0001	A1160213 - Lake Charles Gasification Facility													1

KEY TO MATRIX

- 1 - The regulations have applicable requirements which apply to this particular emission source.
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, and fugitives) but do not apply to this particular emission source.
Blank - The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Status	Citation	Explanation
EQT0001, EQT0007	LAC 33:II.1503.C. Emission Standards for Sulfur Dioxide	Exempt	LAC 33:III.1503.C	SO ₂ emissions < 250 tons/year
	LAC 33:II.1511 CEM for SO ₂	Exempt	LAC 33:III.1511.A	SO ₂ emissions < 100 tons/year
EQT0002, EQT0003, EQT0004	40 CFR 60 Subpart Db	Does not apply	40 CFR 60.40b	Not steam generating units
	LAC 33:II. Chapter 15	Does not apply	LAC 33:III.1502.A.3	SO ₂ emissions < 5 tons/year
EQT0008 - EQT0012	40 CFR 60 Subpart Db	Does not apply	40 CFR 60.40b	Not steam generating units
	LAC 33:II. Chapter 15	Does not apply	LAC 33:III.1502.A.3	SO ₂ emissions < 5 tons/year
EQT0005 - EQT0006 EQT0013 - EQT0017	EQT0005 - EQT0006	Does not apply	LAC 33:III.1502.A.3	SO ₂ emissions < 5 tons/year
	EQT0013 - EQT0017	Exempt	LAC 33:III.1503.C	SO ₂ emissions < 250 tons/year
EQT0028, EQT0029	LAC 33:II.1503.C. Emission Standards for Sulfur Dioxide	Exempt	LAC 33:III.1511.A	SO ₂ emissions < 100 tons/year
	LAC 33:II.1511 CEM for SO ₂	Does not apply	40 CFR 60.8(a)	Do not meet definition of sulfuric acid production units
UNF0001	40 CFR 60 Subpart H	Does not apply	LAC 33:III.5109.A	Does not emit Class I or II over the MERS
The above table provides explanation for both the exemption status or non-applicability of a source cited by 2 or 3 in the matrix presented in Section X of this permit				

40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]
- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
 - 1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
 - 2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
 - 3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and

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4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
 1. the date, place as defined in the permit, and time of sampling or measurements;
 2. the date(s) analyses were performed;
 3. the company or entity that performed the analyses;
 4. the analytical techniques or methods used;
 5. the results of such analyses; and
 6. the operating conditions as existing at the time of sampling or measurement.
[Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]
- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]

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- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]
- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
 - 1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
 - 2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
 - 3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
 - 4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
 - 5. changes in emissions would not qualify as a significant modification; and
 - 6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]

40 CFR PART 70 GENERAL CONDITIONS

- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Enforcement Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
 - a. Report by June 30 to cover January through March
 - b. Report by September 30 to cover April through June
 - c. Report by December 31 to cover July through September
 - d. Report by March 31 to cover October through December
 4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]
- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
 2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;

40 CFR PART 70 GENERAL CONDITIONS

3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
 4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
 5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
 6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]
- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.
- The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]
- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application dated September 2, 2008 and additional information dated November 4, 2008.
- IV. This permit shall become invalid, for the sources not constructed, if:
 - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
 - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.
This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.
- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Enforcement Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Enforcement Division with a written report as specified below.
 - A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 - B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 - C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
 - 1. Report by June 30 to cover January through March
 - 2. Report by September 30 to cover April through June
 - 3. Report by December 31 to cover July through September
 - 4. Report by March 31 to cover October through December

LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- D. Each report submitted in accordance with this condition shall contain the following information:
1. Description of noncomplying emission(s);
 2. Cause of noncompliance;
 3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
 4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
 5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
 - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
 - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
 - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.

- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services in accordance with LAC 33:I.Chapter 19.Facility Name and Ownership/Operator Changes Process.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
 - 1. Generally be less than 5 TPY
 - 2. Be less than the minimum emission rate (MER)
 - 3. Be scheduled daily, weekly, monthly, etc., or
 - 4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division
 La. Dept. of Environmental Quality
 Post Office Box 4302
 Baton Rouge, Louisiana 70821-4302

- XIX. For Part 70 sources, certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

General Information

AI ID: 160213 Lake Charles Cogeneration LLC - Lake Charles Gasification Facility

Activity Number: PER2008001

Permit Number: 0520-00411-V0

Air - Title V Regular Permit Initial

Also Known As:	ID	Name	User Group	Start Date
	0520-00411	Lake Charles Cogeneration LLC - Lake Charles Gasification Facility	Multimedia	
Physical Location:	Hwy 108 S 1/2 Mi to Bayou d'Inde Rd go left 1/8 Mi to site adj to Port of Lake Charles 3 Mi SE of Lake Charles, LA 70600			
Mailing Address:	315 Park Ave S - 20th Floor New York, NY 100103607	315 Park Ave S - 20th Floor New York, NY 100103607	Phone (Type)	Relationship
Related People:	Name	Tom Mara	212460-981 (WP)	Responsible Official for
Related Organizations:	Name	Lake Charles Cogeneration LLC Lake Charles Cogeneration LLC Lake Charles Cogeneration LLC	212460-981 (WP) 212460-981 (WP) 212460-981 (WP)	Operates Air Billing Party for Owns

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-0775 or email your changes to facupdate@la.gov.

INVENTORIES

AI ID: 160213 - Lake Charles Cogeneration LiC - Lake Charles Gasification Facility
 Activity Number: PER20080001
 Permit Number: 0520-00411-V0
 Air - Title V Regular Permit Initial

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Lake Charles Gasification Facility						
EQT 0001	F001 - Hydrocarbon / Gasifiers (A-E) Start-up Flare		487.55 MM BTU/hr	.53 MM BTU/hr		8760 hr/yr
EQT 0002	F002 - Acid Gas Flare		.27 MM BTU/hr	.27 MM BTU/hr		8760 hr/yr
EQT 0003	H003 - Methanation Start-up Heater		56.9 MM BTU/hr	56.9 MM BTU/hr		96 hr/yr
EQT 0004	H004 - Shift Reactor Start-up Heater		34.2 MM BTU/hr	34.2 MM BTU/hr		72 hr/yr
EQT 0005	B005 - Auxiliary Boiler		938.3 MM BTU/hr	10 MM BTU/hr		8760 hr/yr
EQT 0006	B006 - Steam Superheaters (A and B)		415 MM BTU/hr	415 MM BTU/hr		8760 hr/yr
EQT 0007	T007 - AGR CO2 Regenerative Thermal Oxidizers (A and B)		40.9 MM BTU/hr	40.9 MM BTU/hr		8760 hr/yr
EQT 0008	H008A - Gasifier Start-up Preheater Burner		35 MM BTU/hr	35 MM BTU/hr		1028 hr/yr
EQT 0009	H008B - Gasifier Start-up Preheater Burner		35 MM BTU/hr	35 MM BTU/hr		1028 hr/yr
EQT 0010	H008C - Gasifier Start-up Preheater Burner		35 MM BTU/hr	35 MM BTU/hr		1028 hr/yr
EQT 0011	H008D - Gasifier Start-up Preheater Burner		35 MM BTU/hr	35 MM BTU/hr		1028 hr/yr
EQT 0012	H008E - Gasifier Start-up Preheater Burner		35 MM BTU/hr	35 MM BTU/hr		1028 hr/yr
EQT 0013	GE009A - Emergency Diesel Power Generator		1341 horsepower	1341 horsepower		104 hr/yr
EQT 0014	GE009B - Emergency Diesel Power Generator		1341 horsepower	1341 horsepower		104 hr/yr
EQT 0015	P0010A - Fire Water Diesel Pump		575 horsepower	575 horsepower		104 hr/yr
EQT 0016	P0010B - Fire Water Diesel Pump		575 horsepower	575 horsepower		104 hr/yr
EQT 0017	P0010C - Fire Water Diesel Pump		575 horsepower	575 horsepower		104 hr/yr
EQT 0018	CH011A - Coke Handling System - System 1A		33737 SCFM	33737 SCFM		8760 hr/yr
EQT 0019	CH011B - Coke Handling System (Backup) - System 1B		33737 SCFM	33737 SCFM	(None Specified)	8760 hr/yr
EQT 0020	S012A - Bottom Ash Silo and Day Bins		2699 SCFM	2699 SCFM		8760 hr/yr
EQT 0021	S012B - Sand Silo and Sand Day Bins		2699 SCFM	2699 SCFM		8760 hr/yr
EQT 0022	ED013A - Rod Mill Air Eductors					8760 hr/yr
EQT 0023	ED013B - Rod Mill Air Eductors					8760 hr/yr
EQT 0024	ED013C - Rod Mill Air Eductors					8760 hr/yr
EQT 0025	ED013D - Rod Mill Air Eductors					8760 hr/yr
EQT 0026	FV014A - Filter Vacuum Pump Discharge					8760 hr/yr
EQT 0027	FV014B - Filter Vacuum Pump Discharge					8760 hr/yr
EQT 0028	SA015A - Wet Sulfuric Acid Unit			2122 tons/day		8760 hr/yr
EQT 0029	SA015B - Wet Sulfuric Acid Unit			2122 tons/day		8760 hr/yr
EQT 0030	C7016 - Cooling Water Towers			2122 tons/day		8760 hr/yr
EQT 0031	MS017A - ASU Molecular Sieve Regeneration					1752 hr/yr
EQT 0032	MS017B - ASU Molecular Sieve Regeneration					1752 hr/yr
EQT 0033	SU023A - Slag Sump		22442 gallons			8760 hr/yr
EQT 0034	SU023B - Slag Sump		22442 gallons			8760 hr/yr
EQT 0035	SU023C - Slag Sump		22442 gallons			8760 hr/yr
EQT 0036	SU023D - Slag Sump		22442 gallons			8760 hr/yr
EQT 0037	SU023E - Slag Sump		22442 gallons			8760 hr/yr
EQT 0038	TK024 - Methanol De-Inventory Tank		710896 gallons			8760 hr/yr

INVENTORIES

AI ID: 160213 - Lake Charles Cogeneration LLC - Lake Charles Gasification Facility
 Activity Number: PER20080001
 Permit Number: 0520-00411-V0
 Air - Title V Regular Permit Initial

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Lake Charles Gasification Facility						
EQT 0039	TK025 - Fresh Methanol Storage Tank	342005 gallons				8760 hr/yr
EQT 0040	TK027A - Sulfuric Acid Storage Tank	564016 gallons				8760 hr/yr
EQT 0041	TK027B - Sulfuric Acid Storage Tank	564016 gallons				8760 hr/yr
EQT 0042	TK027C - Sulfuric Acid Storage Tank	564016 gallons				8760 hr/yr
EQT 0043	TK027D - Sulfuric Acid Storage Tank	564016 gallons				8760 hr/yr
EQT 0044	TK027E - Sulfuric Acid Storage Tank	564016 gallons				8760 hr/yr
EQT 0045	TK027F - Sulfuric Acid Storage Tank	564016 gallons				8760 hr/yr
EQT 0046	TK028A - Aqueous Ammonia Tank	32243 gallons				8760 hr/yr
EQT 0047	TK028B - Aqueous Ammonia Tank	32243 gallons				8760 hr/yr
EQT 0048	TK030 - Gasoline Tank	1175 gallons				8760 hr/yr
FUG 0001	FUG - Fugitive Emissions					8760 hr/yr

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
Lake Charles Gasification Facility							
EOT 0001	FF001 - Hydrocarbon / Gasifiers (A-E) Start-up Flare	65.62	179733	16.4		210	1831.73
EOT 0002	FF002 - Acid Gas Flare	65.62	133.19	3		210	1831.73
EOT 0003	H003 - Methanation Start-up Heater	34.55	40701	5		125	1400
EOT 0004	H004 - Shift Reactor Start-up Heater	32.45	24464	4		125	1400
EOT 0005	B005 - Auxiliary Boiler	24.4	278381	11		200	310
EOT 0006	B006 - Steam Superheaters (A and B)	39.1	222995	11		200	250
EOT 0007	TO007 - AGR CO2 Regenerative Thermal Oxidizers (A and B)	50.8	538583	15		200	250
EOT 0008	H008A - Gasifier Start-up Preheater Burner	126.39	95285	4		150	232
EOT 0009	H008B - Gasifier Start-up Preheater Burner	126.39	95285	4		150	232
EOT 0010	H008C - Gasifier Start-up Preheater Burner	126.39	95285	4		150	232
EOT 0011	H008D - Gasifier Start-up Preheater Burner	126.39	95285	4		150	232
EOT 0012	H008E - Gasifier Start-up Preheater Burner	126.39	95285	4		150	232
EOT 0013	GE009A - Emergency Diesel Power Generator	239	7836	83		20	933
EOT 0014	GE009B - Emergency Diesel Power Generator	239	7836	.83		20	933
EOT 0015	PE010A - Fire Water Diesel Pump	261	3071	.5		20	871
EOT 0016	PE010B - Fire Water Diesel Pump	261	3071	.5		20	871
EOT 0017	PE010C - Fire Water Diesel Pump	261	3071	5		20	871
EOT 0018	CH011A - Coke Handling System - System 1A	34	30000	4.3		200	68

INVENTORIES

AI ID: 160213 - Lake Charles Cogeneration LLC - Lake Charles Gasification Facility
Activity Number: PER20080001
Permit Number: 0520-00411-V0
Air - Title V Regular Permit Initial

Stack Information:	ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
Lake Charles Gasification Facility								
EQT 0019	CH011B	- Coke Handling System (Backup) - System 1B	34	30000	4.3		200	68
EQT 0020	S012A	- Bottom Ash Silo and Day Bins	57.3	10800	2		125	68
EQT 0021	S012B	- Sand Silo and Sand Day Bins	61.5	11600	2		125	68
EQT 0022	ED013A	- Rod Mill Air Eductors	85.8	1797	.67		125	80
EQT 0023	ED013B	- Rod Mill Air Eductors	85.8	1797	.67		125	80
EQT 0024	ED013C	- Rod Mill Air Eductors	85.8	1797	.67		125	80
EQT 0025	ED013D	- Rod Mill Air Eductors	87.8	1797	.67		125	80
EQT 0026	FV014A	- Filter Vacuum Pump Discharge	7.34	9.6	.17		25	108
EQT 0027	FV014B	- Filter Vacuum Pump Discharge	7.34	9.6	.17		25	108
EQT 0028	SA015A	- Wet Sulfuric Acid Unit	53.2	160389	8		200	212
EQT 0029	SA015B	- Wet Sulfuric Acid Unit	53.2	160389	8		200	212
EQT 0030	CT016	- Cooling Water Towers	28.7		36		65	110
EQT 0031	MS017A	- ASU Molecular Sieve Regeneration	104.6	1971664	20		60	300
EQT 0032	MS017B	- ASU Molecular Sieve Regeneration	104.6	1971664	20		60	300
EQT 0033	SU023A	- Slag Sump					5	140
EQT 0034	SU023B	- Slag Sump					5	140
EQT 0035	SU023C	- Slag Sump					5	140
EQT 0036	SU023D	- Slag Sump					5	140
EQT 0037	SU023E	- Slag Sump					5	140
EQT 0038	TK024	- Methanol De-Inventory Tank		3			50	68
EQT 0039	TK025	- Fresh Methanol Storage Tank		3			50	68
EQT 0040	TK027A	- Sulfuric Acid Storage Tank					60	105
EQT 0041	TK027B	- Sulfuric Acid Storage Tank					60	105
EQT 0042	TK027C	- Sulfuric Acid Storage Tank					60	105
EQT 0043	TK027D	- Sulfuric Acid Storage Tank					60	105
EQT 0044	TK027E	- Sulfuric Acid Storage Tank					60	105
EQT 0045	TK027F	- Sulfuric Acid Storage Tank					60	105
EQT 0046	TK028A	- Aqueous Ammonia Tank					28	80
EQT 0047	TK028B	- Aqueous Ammonia Tank					28	80
EQT 0048	TK030	- Gasoline Tank					B	80

Relationships:

INVENTORIES

AI ID: 160213 - Lake Charles Cogeneration LLC - Lake Charles Gasification Facility
 Activity Number: PER20080001
 Permit Number: 0520-00411-V0
 Air - Title V Regular Permit Initial

Subject Item Groups:

ID	Group Type	Group Description
UNF 0001	Unit or Facility Wide	AI160213 - Lake Charles Gasification Facility

Group Membership:

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multiplier	Units Of Measure
1710	1710 Negotiated Fee	1	\$ New App

SIC Codes:

2819	Industrial inorganic chemicals, nec	AI 160213
4925	Gas production and/or distribution	AI 160213

EMISSION RATES FOR CRITERIA POLLUTANTS

All ID: 1602113 - Lake Charles Cogeneration LLC - Lake Charles Gasification Facility
 Activity Number: PER20080001
 Permit Number: 0520-00411-V0
 Air - Title V Regular Permit Initial

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
Lake Charles Gasification Facility															
EQT_F001	2.77	333.70	12.13	0.51	48.81	2.22	0.03	3.63	0.15	10.72	1303.99	46.95	0.02	1.04	0.08
EQT_F002	0.01	0.01	0.06	0.05	0.05	0.23	<0.01	0.01	<0.01	<0.01	<0.01	0.01	0.01	0.01	0.02
EQT_H003	4.69	4.69	0.22	5.58	5.58	0.27	0.42	0.42	0.03	0.03	<0.01	0.31	0.31	0.31	0.01
EQT_H004	2.82	2.82	0.10	3.35	3.35	0.12	0.25	0.25	0.01	0.02	0.02	<0.01	0.18	0.18	0.01
EQT_E005	3.71	33.78	16.26	3.61	32.84	15.81	0.82	6.99	3.57	<0.01	0.28	<0.01	0.59	5.06	2.59
EQT_E006	14.54	14.94	63.67	14.13	14.53	61.90	3.01	3.09	13.18				2.18	2.24	9.54
EQT_T007	89.36	91.85	391.42	2.39	2.45	10.46	0.30	0.30	1.30	22.30	22.92	97.66	2.26	2.33	9.91
EQT_H008A	1.96	1.96	1.01	3.85	3.85	1.98	0.03	0.03	0.01	<0.01	0.02	<0.01	0.19	0.19	0.10
EQT_H008B	1.96	1.96	1.01	3.85	3.85	1.98	0.03	0.03	0.01	<0.01	0.02	<0.01	0.19	0.19	0.10
EQT_H008C	1.96	1.96	1.01	3.85	3.85	1.98	0.03	0.03	0.01	<0.01	0.02	<0.01	0.19	0.19	0.10
EQT_H008D	1.96	1.96	1.01	3.85	3.85	1.98	0.03	0.03	0.01	<0.01	0.02	<0.01	0.19	0.19	0.10
EQT_H008E	1.96	1.96	1.01	3.85	3.85	1.98	0.03	0.03	0.01	<0.01	0.02	<0.01	0.19	0.19	0.10
EQT_G008A	0.62	0.62	0.03	17.09	17.09	0.89	0.06	0.06	<0.01	0.01	0.01	<0.01	0.03	0.03	<0.01
EQT_G008B	0.62	0.62	0.03	17.09	17.09	0.89	0.06	0.06	<0.01	0.01	0.01	<0.01	0.03	0.03	<0.01
EQT_F0015	0.37	0.37	0.02	6.02	6.02	0.31	0.08	0.08	<0.01	0.01	0.01	<0.01	0.41	0.41	0.02
EQT_F0016	0.37	0.37	0.02	6.02	6.02	0.31	0.08	0.08	<0.01	0.01	0.01	<0.01	0.41	0.41	0.02
EQT_F0017	0.37	0.37	0.02	6.02	6.02	0.31	0.08	0.08	<0.01	0.01	0.01	<0.01	0.41	0.41	0.02
EQT_F0018									1.45	1.45	6.33				
EQT_C001A									1.45	1.45	6.33				
EQT_C001B									0.12	0.12	0.51				
EQT_S012A									0.12	0.12	0.51				
EQT_S012B									0.02	0.02	0.09				
EQT_E0013A									0.02	0.02	0.09				
EQT_E0013B									0.02	0.02	0.09				

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 160213 - Lake Charles Cogeneration LLC - Lake Charles Gasification Facility
 Activity Number: PER20080001
 Permit Number: 0520-00411-V0
 Air - Title V Regular Permit Initial

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/m	Tons/Year												
Lake Charles Gasification Facility															
EQT 0024 ED013C							0.02	0.02	0.09						
EQT 0025 ED013D							0.02	0.02	0.09						
EQT 0026 FV014A							<0.01	<0.01	0.01						
EQT 0027 FV014B							<0.01	<0.01	0.01						
EQT 0028 SA015A	24.18	24.85	105.91	13.14	13.50	57.55	<0.01	0.03	<0.01	13.43	13.80	58.81	<0.01	0.19	<0.01
EQT 0029 SA015B	24.18	24.85	105.91	13.14	13.50	57.55	<0.01	0.03	<0.01	13.43	13.80	58.81	<0.01	0.19	<0.01
EQT 0030 CT016															
EQT 0031 MS017A							0.10	0.10	0.09						
EQT 0032 MS017B							0.10	0.10	0.09						
EQT 0038 TK024													0.03	2.24	0.14
EQT 0039 TK025													0.03	0.55	0.12
EQT 0048 TK030													0.02	1.84	0.10
FUG 0001 FUG	0.02	0.02	0.09										0.37	0.37	1.62

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 160213 - Lake Charles Cogeneration LLC - Lake Charles Gasification Facility
 Activity Number: PER20080001
 Permit Number: 0520-00411-V0
 Air - Title V Regular Permit Initial

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0001 F001	Carbonyl sulfide	0.01	0.98	0.04
	Hydrogen sulfide	0.11	13.32	0.48
EQT 0007 T007	Carbonyl sulfide	0.34	0.35	1.50
	Hydrogen sulfide	0.05	0.05	0.21
	Methanol	1.71	1.75	7.48
EQT 0028 SA015A	Sulfuric acid	6.37	6.55	27.91
EQT 0029 SA015B	Sulfuric acid	6.37	6.55	27.91
EQT 0033 SU023A	Hydrogen sulfide	0.01	0.04	0.03
EQT 0034 SU023B	Hydrogen sulfide	0.01	0.04	0.03
EQT 0035 SU023C	Hydrogen sulfide	0.01	0.04	0.03
EQT 0036 SU023D	Hydrogen sulfide	0.01	0.04	0.03
EQT 0037 SU023E	Hydrogen sulfide	0.01	0.04	0.03
EQT 0038 TK024	Methanol	0.03	2.24	0.14
EQT 0039 TK025	Methanol	0.03	0.55	0.12
EQT 0040 TK027A	Sulfuric acid	<0.01	<0.01	<0.01
EQT 0041 TK027B	Sulfuric acid	<0.01	<0.01	<0.01
EQT 0042 TK027C	Sulfuric acid	<0.01	<0.01	<0.01
EQT 0043 TK027D	Sulfuric acid	<0.01	<0.01	<0.01
EQT 0044 TK027E	Sulfuric acid	<0.01	<0.01	<0.01
EQT 0045 TK027F	Sulfuric acid	<0.01	<0.01	<0.01
EQT 0046 TK028A	Ammonia	0.06	3.46	0.24
EQT 0047 TK028B	Ammonia	0.06	3.46	0.24
EQT 0048 TK030	Benzene	<0.01	0.01	<0.01
	Cumene	<0.01	<0.01	<0.01
	Ethyl benzene	<0.01	<0.01	<0.01
	Toluene	<0.01	0.01	<0.01
	Xylene (mixed isomers)	<0.01	<0.01	<0.01
	n-Hexane	<0.01	0.05	<0.01
FUG 0001 FUG	Ammonia	<0.01	<0.01	<0.01
	Carbonyl sulfide	<0.01	<0.01	0.02
	Hydrogen sulfide	<0.01	<0.01	0.01
	Methanol	0.08	0.08	0.37
UNF 0001 AI160213	Ammonia			0.49

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 160213 - Lake Charles Cogeneration LLC - Lake Charles Gasification Facility
 Activity Number: PER20080001
 Permit Number: 0520-00411-V0
 Air - Title V Regular Permit Initial

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
UNF 0001 AI160213	Benzene			<0.01
	Carbonyl sulfide			1.55
	Cumene			<0.01
	Ethyl benzene			<0.01
	Hydrogen sulfide			0.86
	Methanol			8.10
	Sulfuric acid			55.83
	Toluene			<0.01
	Xylene (mixed isomers)			<0.01
	n-Hexane			<0.01

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

SPECIFIC REQUIREMENTS

AI ID: 160213 - Lake Charles Cogeneration LLC - Lake Charles Gasification Facility
 Activity Number: PER20080001
 Permit Number: 0520-00411-V0
 Air - Title V Regular Permit Initial

EQT 0001 F001 - Hydrocarbon / Gasifiers (A-E) Start-up Flare

- 1 [LAC 33.III.1105] Submit notification: Due to SPOC as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33.I.3923. Notification is required only if the upset cannot be controlled in six hours.
Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.
- 2 [LAC 33.III.1105] Which Months: All Year Statistical Basis: None specified
Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

- Which Months: All Year Statistical Basis: Six-minute average
Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.
- Flare gas: Heat content > 300 BTU/scf, to ensure destruction of emissions to the flare stack.
- Which Months: All Year Statistical Basis: None specified
Flare gas: Heat content monitored by gas analysis annually, to ensure the heat content is above 300 BTU/scf.
- Which Months: All Year Statistical Basis: None specified
Presence of a flame monitored by heat sensing device continuously.
- Which Months: All Year Statistical Basis: None specified
Presence of a flame recordkeeping by electronic or hard copy continuously.
- Develop a corrective action plan for re-lighting the flare. Plan must be kept readily available for immediate implementation in the event the flare needs to be re-lit.
- Flare gas: Heat content recordkeeping by electronic or hard copy annually.
- Shall not receive vents from gasifier start-up for more than 2.5 hours for normal operation scenarios or 3.0 hours for black start scenarios during any consecutive 24 hour period. Gasifier start-up time shall be monitored, recorded. These records shall be retained on site and available for inspection.

EQT 0002 F002 - Acid Gas Flare

- Submit notification: Due to SPOC as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33.I.3923. Notification is required only if the upset cannot be controlled in six hours.
Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.
- Which Months: All Year Statistical Basis: None specified
Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- Which Months: All Year Statistical Basis: Six-minute average
Flare gas: Heat content > 300 BTU/scf, to ensure destruction of emissions to the flare stack.
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AID: 160213 - Lake Charles Cogeneration LLC - Lake Charles Gasification Facility
Activity Number: PER20080001
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Air - Title V Regular Permit Initial

EQT 0002 F002 - Acid Gas Flare

- 16 [LAC 33:III.507.H.1.a] Develop a corrective action plan for re-lighting the flare. Plan must be kept readily available for immediate implementation in the event the flare needs to be re-lit.
 Presence of a flame recordkeeping by electronic or hard copy continuously.
- 17 [LAC 33:III.507.H.1.a] Flare gas: Heat content recordkeeping by electronic or hard copy annually.
- 18 [LAC 33:III.507.H.1.a] Presence of a flame monitored by heat sensing device continuously.
- 19 [LAC 33:III.507.H.1.a] Which Months: All Year Statistical Basis: None specified
- Flare gas: Heat content monitored by gas analysis annually, to ensure the heat content is above 300 BTU/scf.
- 20 [LAC 33:III.507.H.1.a] Which Months: All Year Statistical Basis: None specified

EQT 0003 H003 - Methanation Start-up Heater

- Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- Which Months: All Year Statistical Basis: None specified
- Total suspended particulate <= 0.6 lb/MMBTU of heat input.
- Which Months: All Year Statistical Basis: None specified
- Shall utilize good equipment design and proper operation to minimize PM/PM10, NOX, and CO emissions - Determined as BACT - PSD-LA-742.
- Shall burn only natural gas and/or SNG - Determined as BACT for SO2 - PSD-LA-742.

EQT 0004 H004 - Shift Reactor Start-up Heater

- Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- Which Months: All Year Statistical Basis: None specified
- Total suspended particulate <= 0.6 lb/MMBTU of heat input.
- Which Months: All Year Statistical Basis: None specified
- Shall utilize good equipment design and proper operation to minimize PM/PM10, NOX, and CO emissions - Determined as BACT - PSD-LA-742.
- Shall burn only natural gas and/or SNG - Determined as BACT for SO2 - PSD-LA-742.

EQT 0005 B005 - Auxiliary Boiler

SPECIFIC REQUIREMENTS

AI ID: 160213 - Lake Charles Cogeneration LLC - Lake Charles Gasification Facility
Activity Number: PER20080001
Permit Number: 0520-00411-V0
Air - Title V Regular Permit Initial

EQT 0005 B005 - Auxiliary Boiler

- 29 [40 CFR 60.44b] Nitrogen oxides <= 0.10 lb/MMBTU (43 ng/J) heat input (expressed as NO₂), except as provided in 40 CFR 60.44b(k). The nitrogen oxide standards apply at all times, including periods of startup, shutdown, or malfunction. Subpart Db.
- Which Months: All Year Statistical Basis: Thirty-day rolling average
- Determine compliance with the NO_x standards in 40 CFR 60.44b through performance testing under 40 CFR 60.46b(e) or (f), or under 40 CFR 60.46b(g) or (h), as applicable. Subpart Db. [40 CFR 60.46b(c)]
- Oxygen or Carbon dioxide monitored by CMS continuously, except as provided in 40 CFR 60.48b(g), (h), and (i). Subpart Db. [40 CFR 60.48b(h)(1)]
- Which Months: All Year Statistical Basis: One-hour average
- Nitrogen oxides monitored by CMS continuously. Calculate nitrogen oxides emission rates as specified in 40 CFR 60.48b(d), except as provided in 40 CFR 60.48b(g), (h), and (i). Subpart Db. [40 CFR 60.48b(h)(1)]
- Which Months: All Year Statistical Basis: One-hour average
- Oxygen or Carbon dioxide recordkeeping by CMS continuously, except as provided in 40 CFR 60.48b(g), (h), and (i). Subpart Db. [40 CFR 60.48b(h)(1)]
- Nitrogen oxides recordkeeping by CMS continuously, except as provided in 40 CFR 60.48b(g), (h), and (i). Subpart Db. [40 CFR 60.48b(h)(1)]
- Operate NO_x continuous monitoring systems and record data during all periods of operation except for continuous monitoring system breakdowns and repairs. Record data during calibration checks, and zero and span adjustments. Subpart Db. [40 CFR 60.48b(c)]
- Follow the procedures under 40 CFR 60.13 and 40 CFR 60.48b(e)(1) through (e)(3) for installation, evaluation, and operation of the NO_x and opacity continuous monitoring systems. Subpart Db. [40 CFR 60.48b(e)]
- When nitrogen oxides emission data are not obtained because of continuous monitoring system breakdowns, repairs, calibration checks and zero and span adjustments, obtain emission data by using standby monitoring systems, 40 CFR 60, Appendix A, Method 7a, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days. Subpart Db. [40 CFR 60.48b(f)]
- Submit notification: Due as provided by 40 CFR 60.7. Submit a notification of the actual date of initial startup including design heat input capacity of the affected facility, identification of fuels to be combusted, copy of any federally enforceable requirement limiting annual capacity factor, and all other data as specified in 40 CFR 60.49b(a)(1) through (a)(4). Subpart Db. [40 CFR 60.49b(a)]
- Submit the performance test data from the initial performance test and the performance evaluation of the CEMS using the applicable performance specifications in 40 CFR 60 Appendix B to DEQ. Subpart Db. [40 CFR 60.49b(b)]
- Fuel rate recordkeeping by electronic or hard copy daily. Record the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. Determine the annual capacity factor on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. Subpart Db. [40 CFR 60.49b(d)]
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information listed in 40 CFR 60.49b(g)(1) through (g)(10) for each steam generating unit operating day, except as provided under 40 CFR 60.49b(p). Subpart Db. [40 CFR 60.49b(g)]
- Submit excess emissions report: Due by the 30th day following the end of each six-month period. Report any excess emissions which occurred during the reporting period. Subpart Db. [40 CFR 60.49b(h)]

SPECIFIC REQUIREMENTS

AI ID: 160213 - Lake Charles Cogeneration LLC - Lake Charles Gasification Facility
 Activity Number: PER20080001
 Permit Number: 0520-00411-V0
 Air - Title V Regular Permit Initial

EQT 0005 B005 - Auxiliary Boiler

43 [40 CFR 60.49b(i)]
 44 [40 CFR 60.49b(o)]
 45 [LAC 33.III.1101.B]
 46 [LAC 33.III.1313.C]
 47 [LAC 33.III.507.H.1.a]

Submit reports containing the nitrogen dioxide emission rate information recorded under 40 CFR 60.49b(g). Subpart Db. [40 CFR 60.49b(i)]
 Maintain all records required under 40 CFR 60.49b for a period of 2 years following the date of such record. Subpart Db. [40 CFR 60.49b(o)]
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

Total suspended particulate <= 0.6 lb/MMBTU of heat input.

Which Months: All Year Statistical Basis: None specified

Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit; and therefore must be conducted at greater than 80% of maximum permitted capacity. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Air Quality Assessment Division. As required by LAC 33.III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
 Shall be equipped with ultra low NOX burners (ULNBB) to limit NOX emissions to 0.035 lb/MMBTU . Determined as BACT - PSD-LA-742.
 Shall utilize good design and proper operation to minimize PM/PM10 and CO emissions - Determined as BACT - PSD-LA-742.
 Shall burn only natural gas and/or SNG - Determined as BACT for SO2 - PSD-LA-742.

EQT 0006 B006 - Steam Superheaters (A and B)

51 [40 CFR 60.44b]
 52 [40 CFR 60.46b.c]
 53 [40 CFR 60.48b.b.1]
 54 [40 CFR 60.48b.b.1]
 55 [40 CFR 60.48b.b.1]
 56 [40 CFR 60.48b.b.1]

Nitrogen oxides <= 0.10 lb/MMBTU (43 ng/J) heat input (expressed as NO₂), except as provided in 40 CFR 60.44b(k). The nitrogen oxide standards apply at all times, including periods of startup, shutdown, or malfunction. Subpart Db.
 Which Months: All Year Statistical Basis: Thirty-day rolling average
 Determine compliance with the NOx standards in 40 CFR 60.44b through performance testing under 40 CFR 60.46b(e) or (f), or under 40 CFR 60.46b(g) or (h), as applicable. Subpart Db. [40 CFR 60.46b(c)]
 Nitrogen oxides monitored by CMS continuously. Calculate nitrogen oxides emission rates as specified in 40 CFR 60.48b(d), except as provided in 40 CFR 60.48b(g), (h), and (i). Subpart Db. [40 CFR 60.48b(b)(1)]
 Which Months: All Year Statistical Basis: One-hour average
 Oxygen or Carbon dioxide monitored by CMS continuously, except as provided in 40 CFR 60.48b(g), (h), and (i). Subpart Db. [40 CFR 60.48b(b)(1)]
 Which Months: All Year Statistical Basis: One-hour average
 Oxygen or Carbon dioxide recordkeeping by CMS continuously, except as provided in 40 CFR 60.48b(g), (h), and (i). Subpart Db. [40 CFR 60.48b(b)(1)]
 Nitrogen oxides recordkeeping by CMS continuously, except as provided in 40 CFR 60.48b(g), (h), and (i). Subpart Db. [40 CFR 60.48b(b)(1)]

SPECIFIC REQUIREMENTS

AI ID: 160213 - Lake Charles Cogeneration LLC - Lake Charles Gasification Facility
Activity Number: PER20080001
Permit Number: 0520-00411-V0
Air - Title V Regular Permit Initial

EQT 0006 B006 - Steam Superheaters (A and B)

- 57 [40 CFR 60.48b.c] Operate NO_x continuous monitoring systems and record data during all periods of operation except for continuous monitoring system breakdowns and repairs. Record data during calibration checks, and zero and span adjustments. Subpart Db. [40 CFR 60.48b(c)]
- Follow the procedures under 40 CFR 60.13 and 40 CFR 60.48b(e)(1) through (e)(3) for installation, evaluation, and operation of the NO_x and opacity continuous monitoring systems. Subpart Db. [40 CFR 60.48b(e)]
- When nitrogen oxides emission data are not obtained because of continuous monitoring system breakdowns, repairs, calibration checks and zero and span adjustments, obtain emission data by using standby monitoring systems, 40 CFR 60, Appendix A, Method 7a, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days. Subpart Db. [40 CFR 60.48b(f)]
- Submit notification: Due as provided by 40 CFR 60.7. Submit a notification of the actual date of initial startup including design heat input capacity of the affected facility, identification of fuels to be combusted, copy of any federally enforceable requirement limiting annual capacity factor, and all other data as specified in 40 CFR 60.49b(a)(1) through (a)(4). Subpart Db. [40 CFR 60.49b(a)]
- Submit the performance test data from the initial performance test and the performance evaluation of the CEMS using the applicable performance specifications in 40 CFR 60 Appendix B to DEQ. Subpart Db. [40 CFR 60.49b(b)]
- Fuel rate recordkeeping by electronic or hard copy daily. Record the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period.
- Determine the annual capacity factor on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. Subpart Db. [40 CFR 60.49b(d)]
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information listed in 40 CFR 60.49b(g)(1) through (g)(10) for each steam generating unit operating day, except as provided under 40 CFR 60.49b(p). Subpart Db. [40 CFR 60.49b(g)]
- Submit excess emissions report: Due by the 30th day following the end of each six-month period. Report any excess emissions which occurred during the reporting period. Subpart Db. [40 CFR 60.49b(h)]
- Submit reports containing the nitrogen dioxide emission rate information recorded under 40 CFR 60.49b(g). Subpart Db. [40 CFR 60.49b(i)]
- Maintain all records required under 40 CFR 60.49b for a period of 2 years following the date of such record. Subpart Db. [40 CFR 60.49b(o)]
- Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- Which Months: All Year Statistical Basis: None specified
- Total suspended particulate <= 0.6 lb/MMBTU of heat input.
- Which Months: All Year Statistical Basis: None specified
- 68 [LAC 33.III.1313.C]

SPECIFIC REQUIREMENTS

AI ID: 160213 - Lake Charles Cogeneration LLC - Lake Charles Gasification Facility
 Activity Number: PER2008001
 Permit Number: 0520-00411-Y0
 Air - Title V Regular Permit Initial

EQT 0006 B006 - Steam Superheaters (A and B)

- 69 [LAC 33:III.507.H.1.a] Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit and therefore must be conducted at greater than 80% of maximum permitted capacity. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Air Quality Assessment Division. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
 Shall utilize good design and proper operation to minimize PM/PM10 and CO emissions - Determined as BACT - PSD-LA-742.
- 70 [LAC 33:III.509] Shall be equipped with ultra low NOX burners (ULNB) to limit NOX emissions to 0.035 lb/MMBTU - Determined as BACT - PSD-LA-742.
- 71 [LAC 33:III.509] Shall burn only natural gas and/or SNG - Determined as BACT for SO2 - PSD-LA-742.
- 72 [LAC 33:III.509]

EQT 0007 T0007 - AGR CO2 Regenerative Thermal Oxidizers (A and B)

- 73 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: None specified
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average
 Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.
- 74 [LAC 33:III.1311.C]
- 75 [LAC 33:III.1513.C]

EQT 0008 H008A - Gasifier Start-up Preheater Burner

- 76 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input.
 Which Months: All Year Statistical Basis: None specified
 Shall monitor and record operating time of this gasifier start-up preheater burner. Total operating time of five gasifier start-up preheater burners shall be limited to 24 hours during any consecutive 24-hour period. Records to show compliance with this requirement shall be maintained on site and available for inspection.
 Shall burn only natural gas and/or SNG - Determined as BACT for SO2 - PSD-LA-742.
- 77 [LAC 33:III.1313.C]
- 78 [LAC 33:III.507.H.1.a]
- 79 [LAC 33:III.509] Shall utilize good equipment design and proper operation to minimize PM/PM10, NOX, and CO emissions - Determined as BACT - PSD-LA-742.
- 80 [LAC 33:III.509]

SPECIFIC REQUIREMENTS

Air ID: 160213 - Lake Charles Cogeneration LLC - Lake Charles Gasification Facility
 Activity Number: PER20080001
 Permit Number: 0520-00411-V0
 Air - Title V Regular Permit Initial

EQT 0009 H008B - Gasifier Start-up Preheater Burner

- 81 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input.
 Which Months: All Year Statistical Basis: None specified
 Shall monitor and record operating time of this gasifier start-up preheater burner. Total operating time of five gasifier start-up preheater burners shall be limited to 24 hours during any consecutive 24-hour period. Records to show compliance with this requirement shall be maintained on site and available for inspection.
 Shall burn only natural gas and/or SNG - Determined as BACT for SO2 - PSD-LA-742.
 Shall utilize good equipment design and proper operation to minimize PM/PM10, NOX, and CO emissions - Determined as BACT - PSD-LA-742.

EQT 0010 H008C - Gasifier Start-up Preheater Burner

- 86 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input.
 Which Months: All Year Statistical Basis: None specified
 Shall monitor and record operating time of this gasifier start-up preheater burner. Total operating time of five gasifier start-up preheater burners shall be limited to 24 hours during any consecutive 24-hour period. Records to show compliance with this requirement shall be maintained on site and available for inspection.
 Shall utilize good equipment design and proper operation to minimize PM/PM10, NOX, and CO emissions - Determined as BACT - PSD-LA-742.
 Shall burn only natural gas and/or SNG - Determined as BACT for SO2 - PSD-LA-742.

EQT 0011 H008D - Gasifier Start-up Preheater Burner

- 91 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input.
 Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 160213 - Lake Charles Cogeneration LLC - Lake Charles Gasification Facility
 Activity Number: PER20080001
 Permit Number: 0520-00411-V0
 Air - Title V Regular Permit Initial

EQT 0011 H008D - Gasifier Start-up Preheater Burner

93 [LAC 33:III.507.H.1.a] Shall monitor and record operating time of this gasifier start-up preheater burner. Total operating time of five gasifier start-up preheater burners shall be limited to 24 hours during any consecutive 24-hour period. Records to show compliance with this requirement shall be maintained on site and available for inspection.

94 [LAC 33:III.509] Shall utilize good equipment design and proper operation to minimize PM/PM10, NOX, and CO emissions - Determined as BACT - PSD-LA-742.

95 [LAC 33:III.509] Shall burn only natural gas and/or SNG - Determined as BACT for SO₂ - PSD-LA-742.

EQT 0012 H008E - Gasifier Start-up Preheater Burner

96 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input.
 Which Months: All Year Statistical Basis: None specified
 Shall monitor and record operating time of this gasifier start-up preheater burner. Total operating time of five gasifier start-up preheater burners shall be limited to 24 hours during any consecutive 24-hour period. Records to show compliance with this requirement shall be maintained on site and available for inspection.

99 [LAC 33:III.509] Shall burn only natural gas and/or SNG - Determined as BACT for SO₂ - PSD-LA-742.

100 [LAC 33:III.509] Shall utilize good equipment design and proper operation to minimize PM/PM10, NOX, and CO emissions - Determined as BACT - PSD-LA-742.

EQT 0013 GE009A - Emergency Diesel Power Generator

101 [40 CFR 60.4205 b] Comply with the emission standards for new nonroad CI engines in 40 CFR 60.4202, for all pollutants, for the same model year and maximum engine power. Subpart III. [40 CFR 60.4205(b)] Operate and maintain stationary CI ICE according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine. Subpart III. Beginning October 1, 2007, use diesel fuel that meets the requirements of 40 CFR 80.510(a). Subpart III. [40 CFR 60.4207(a)] Beginning October 1, 2010, use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel. Subpart III. [40 CFR 60.4207(b)] Operating time monitored by hour/time monitor continuously during operation. Install a non-resettable hour meter prior to startup of the engine. Subpart III. [40 CFR 60.4209(a)] Which Months: All Year Statistical Basis: None specified Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, only change those settings that are permitted by the manufacturer. Also meet the requirements of 40 CFR 89, 94 and/or 1068, as applicable. Subpart III. [40 CFR 60.4211(a)]

SPECIFIC REQUIREMENTS

AI ID: 160213 - Lake Charles Cogeneration LLC - Lake Charles Gasification Facility
 Activity Number: PER20080001
 Permit Number: 0520-00411-V0
 Air - Title V Regular Permit Initial

EQT 0013 GE009A - Emergency Diesel Power Generator

- 107 [40 CFR 60.4211.c] Ensure engine is certified to the emission standards in 40 CFR 60.4204(b), or 40 CFR 60.4025(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power. Install and configure according to the manufacturer's specifications. Subpart III. [40 CFR 60.4211(c)]
 Comply with the requirements of 40 CFR 63 Subpart ZZZZ by complying with all applicable requirements of 40 CFR 60 Subpart III. [40 CFR 63.6590(c)]
- 108 [40 CFR 63.6590.c] Opacity <= 20 percent, except during the cleaning of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 109 [LAC 33.III.1101.B] Which Months: All Year Statistical Basis: None specified
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 110 [LAC 33.III.1311.C] Which Months: All Year Statistical Basis: Six-minute average
 Shall comply with all applicable provisions of 40 CFR 60 Subpart IIII - Determined as BACT for PM/PM10, SO2, NOX, and CO - PSD-LA-742.

EQT 0014 GE009B - Emergency Diesel Power Generator

- 112 [40 CFR 60.4205.b] Comply with the emission standards for new nonroad CI engines in 40 CFR 60.4202, for all pollutants, for the same model year and maximum engine power. Subpart III. [40 CFR 60.4205(b)]
 Operate and maintain stationary CI ICE according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine. Subpart IIII.
 Beginning October 1, 2007, use diesel fuel that meets the requirements of 40 CFR 80.510(a). Subpart III. [40 CFR 60.4207(a)]
 Beginning October 1, 2010, use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel. Subpart III. [40 CFR 60.4207(b)]
- 113 [40 CFR 60.4206] Operating time monitored by hour/time monitor continuously during operation. Install a non-resettable hour meter prior to startup of the engine. Subpart IIII. [40 CFR 60.4209(a)]
- 114 [40 CFR 60.4207.a] Which Months: All Year Statistical Basis: None specified
 Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, only change those settings that are permitted by the manufacturer. Also meet the requirements of 40 CFR 89, 94 and/or 1068, as applicable. Subpart III. [40 CFR 60.4211(a)]
- 115 [40 CFR 60.4207.b] Ensure engine is certified to the emission standards in 40 CFR 60.4204(b), or 40 CFR 60.4025(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power. Install and configure according to the manufacturer's specifications. Subpart III. [40 CFR 60.4211(c)]
 Comply with the requirements of 40 CFR 63 Subpart ZZZZ by complying with all applicable requirements of 40 CFR 60 Subpart IIII. [40 CFR 63.6590(c)]
- 116 [40 CFR 60.4209.a]
- 117 [40 CFR 60.4211.a]
- 118 [40 CFR 60.4211.c]
- 119 [40 CFR 63.6590.c]

SPECIFIC REQUIREMENTS

AI ID: 160213 - Lake Charles Cogeneration LLC - Lake Charles Gasification Facility
Activity Number: PER20080001
Permit Number: 0520-00411-V0
Air - Title V Regular Permit Initial

EQT_0014 GE009B - Emergency Diesel Power Generator

- 120 [LAC 33.III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: None specified
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average
 Shall comply with all applicable provisions of 40 CFR 60 Subpart IIII . Determined as BACT for PM/PM10, SO2, NOX, and CO . PSD-LA-742.

EQT_0015 PE010A - Fire Water Diesel Pump

- 123 [40 CFR 60.4205.c] Non-methane hydrocarbons plus Nitrogen oxides <= 3.0 g/BHP-hr (4.0 g/KW-hr). Subpart IIII. [40 CFR 60.4205(c)]
 Which Months: All Year Statistical Basis: None specified
 Particulate matter (10 microns or less) <= 0.15 g/BHP-hr (0.20 g/KW-hr). Subpart IIII. [40 CFR 60.4205(c)]
 Which Months: All Year Statistical Basis: None specified
 Operate and maintain stationary CI ICE according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine. Subpart IIII.
 Beginning October 1, 2007, use diesel fuel that meets the requirements of 40 CFR 80.510(a). Subpart IIII. [40 CFR 60.4207(a)]
 Beginning October 1, 2010, use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel. Subpart IIII. [40 CFR 60.4207(b)]
 Operating time monitored by hour/time monitor continuously during operation. Install a non-resettable hour meter prior to startup of the engine. Subpart IIII. [40 CFR 60.4209(a)]
 Which Months: All Year Statistical Basis: None specified
 Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, only change those settings that are permitted by the manufacturer. Also meet the requirements of 40 CFR 89, 94 and/or 1068, as applicable. Subpart IIII. [40 CFR 60.4211(a)]
 Ensure engine is certified to the emission standards in 40 CFR 60.4204(b), or 40 CFR 60.4025(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power. Install and configure according to the manufacturer's specifications. Subpart IIII. [40 CFR 60.4211(c)]
 Conduct performance tests according to 40 CFR 60.4212(a) through (d). Subpart IIII.
 Comply with the requirements of 40 CFR 63 Subpart ZZZZ by complying with all applicable requirements of 40 CFR 60 Subpart IIII. [40 CFR 63.6590(c)]
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 160213 - Lake Charles Cogeneration LLC - Lake Charles Gasification Facility
Activity Number: PER20080001
Permit Number: 0520-00411-V0
Air - Title V Regular Permit Initial

EQT 0015 PE010A - Fire Water Diesel Pump

- 134 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average
 Shall comply with all applicable provisions of 40 CFR 60 Subpart III - Determined as BACT for PM/PM10, SO2, NOX, and CO - PSD-LA-742.

EQT 0016 PE010B - Fire Water Diesel Pump

- 136 [40 CFR 60.4205.c] Non-methane hydrocarbons plus Nitrogen oxides <= 3.0 g/BHP-hr (4.0 g/KW-hr). Subpart IIII. [40 CFR 60.4205(c)]
 Which Months: All Year Statistical Basis: None specified
 Particulate matter (10 microns or less) <= 0.15 g/BHP-hr (0.20 g/KW-hr). Subpart IIII. [40 CFR 60.4205(c)]
 Which Months: All Year Statistical Basis: None specified
 Operate and maintain stationary CI ICE according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine. Subpart IIII.
 Beginning October 1, 2007, use diesel fuel that meets the requirements of 40 CFR 80.510(a). Subpart IIII. [40 CFR 60.4207(a)]
 Beginning October 1, 2010, use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel. Subpart IIII. [40 CFR 60.4207(b)]
 Operating time monitored by hour/time monitor continuously during operation. Install a non-resettable hour meter prior to startup of the engine. Subpart IIII. [40 CFR 60.4209(a)]
 Which Months: All Year Statistical Basis: None specified
 Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, only change those settings that are permitted by the manufacturer. Also meet the requirements of 40 CFR 89, 94 and/or 1068, as applicable. Subpart IIII. [40 CFR 60.4211(a)]
 Ensure engine is certified to the emission standards in 40 CFR 60.4204(b), or 40 CFR 60.4025(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFP A nameplate) engine power. Install and configure according to the manufacturer's specifications. Subpart IIII. [40 CFR 60.4211(c)]
 Comply with the requirements of 40 CFR 63 Subpart ZZZZ by complying with all applicable requirements of 40 CFR 60 Subpart IIII. [40 CFR 63.6590(c)]
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: None specified
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average
 Shall comply with all applicable provisions of 40 CFR 60 Subpart IIII - Determined as BACT for PM/PM10, SO2, NOX, and CO - PSD-LA-742.

SPECIFIC REQUIREMENTS

AI ID: 160213 - Lake Charles Cogeneration LLC - Lake Charles Gasification Facility
 Activity Number: PER20080001
 Permit Number: 0520-00411-V0
 Air - Title V Regular Permit Initial

EQT 0017 PE010C - Fire Water Diesel Pump

- 148 [40 CFR 60.4205.c] Non-methane hydrocarbons plus Nitrogen oxides <= 3.0 g/BHP-hr (4.0 g/KW-hr). Subpart IIII. [40 CFR 60.4205(c)]
 Which Months: All Year Statistical Basis: None specified
 Particulate matter (10 microns or less) <= 0.15 g/BHP-hr (0.20 g/KW-hr). Subpart IIII. [40 CFR 60.4205(c)]
 Which Months: All Year Statistical Basis: None specified
 Operate and maintain stationary C1 ICE according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine. Subpart IIII.
 Beginning October 1, 2007, use diesel fuel that meets the requirements of 40 CFR 80.510(a). Subpart IIII. [40 CFR 60.4207(a)]
 Beginning October 1, 2010, use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel. Subpart IIII. [40 CFR 60.4207(b)]
 Operating time monitored by hour/time monitor continuously during operation. Install a non-resettable hour meter prior to startup of the engine. Subpart IIII [40 CFR 60.4209(a)]
 Which Months: All Year Statistical Basis: None specified
 Operate and maintain the stationary C1 internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, only change those settings that are permitted by the manufacturer. Also meet the requirements of 40 CFR 89, 94 and/or 1068, as applicable. Subpart IIII. [40 CFR 60.4211(a)]
 Ensure engine is certified to the emission standards in 40 CFR 60.4204(b), or 40 CFR 60.4025(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NPPA nameplate) engine power. Install and configure according to the manufacturer's specifications. Subpart IIII. [40 CFR 60.4211(c)]
 Conduct performance tests according to 40 CFR 60.4212(a) through (d). Subpart IIII.
 Comply with the requirements of 40 CFR 63 Subpart ZZZZ by complying with all applicable requirements of 40 CFR 60 Subpart IIII. [40 CFR 63.6590(c)]
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: None specified
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average
 Shall comply with all applicable provisions of 40 CFR 60 Subpart IIII - Determined as BACT for PM/PM10, SO2, NOX, and CO - PSD-LA-742.
- 151 [40 CFR 60.4207.a]
 152 [40 CFR 60.4207.b]
 153 [40 CFR 60.4209.a]
 154 [40 CFR 60.4211.a]
 155 [40 CFR 60.4211.c]
 156 [40 CFR 60.4212]
 157 [40 CFR 63.6590.c]
 158 [LAC 33.III.1101.B]
 159 [LAC 33.III.1311.C]
 160 [LAC 33.III.509]

EQT 0018 CH011A - Coke Handling System - System 1A

- 161 [LAC 33.III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average

SPECIFIC REQUIREMENTS

AI ID: 160213 - Lake Charles Cogeneration LLC - Lake Charles Gasification Facility
 Activity Number: PER20080001
 Permit Number: 0520-00411-V0
Air - Title V Regular Permit Initial

EQT 0018 CH011A - Coke Handling System - System 1A

- Particulate matter (10 microns or less) $\geq 99.9\%$ removal efficiency from filter manufacturer's certification.
 Which Months: All Year Statistical Basis: None specified
 Filter vents: Visible emissions recordkeeping by electronic or hard copy daily. Keep records of visible emission checks on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
- Baghouses (including gaskets): Equipment/operational data monitored by technically sound method upon each occurrence of process unit shut down or whenever visible emission checks indicate maintenance may be necessary. Change elements as necessary.
- Which Months: All Year Statistical Basis: None specified
 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit and therefore must be conducted at greater than 80% of maximum permitted capacity. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 5 - Determination of particulate matter emissions from stationary sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Air Quality Assessment Division. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- Baghouses: Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of inspection. Keep records of maintenance inspections on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
- Filter vents: Visible emissions monitored by visual inspection/determination daily. If visible emissions are observed, restore operation of the filter to its normal or usual manner of operation as expeditiously as practicable, but at a minimum within three working days, in accordance with good air pollution control practices for minimizing emissions.
- Which Months: All Year Statistical Basis: None specified
 Shall be equipped with a baghouse ($\geq 99.9\%$ control efficiency) - Determined as BACT for PM/PM10 - PSD-LA-742.

EQT 0019 CH011B - Coke Handling System (Backup) - System 1B

- Opacity ≤ 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average
 Shall only be operated when EQT018 is not available (such as, during startup, shutdown, or malfunction).
- Particulate matter (10 microns or less) $\geq 99.9\%$ removal efficiency from filter manufacturer's certification.
 Which Months: All Year Statistical Basis: None specified
 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit and therefore must be conducted at greater than 80% of maximum permitted capacity. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 5 - Determination of particulate matter emissions from stationary sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Air Quality Assessment Division. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.

SPECIFIC REQUIREMENTS

All ID: 160213 - Lake Charles Cogeneration LLC - Lake Charles Gasification Facility
 Activity Number: PER20080001
 Permit Number: 0520-00411-V0
 Air - Title V Regular Permit Initial

EQT 0019 CH011B - Coke Handling System (Backup) - System 1B

- 173 [LAC 33:III.507.H.1.a] Baghouses (including gaskets): Equipment/operational data monitored by technically sound method upon each occurrence of process unit shut down or whenever visible emission checks indicate maintenance may be necessary. Change elements as necessary.
 Which Months: All Year Statistical Basis: None specified
- 174 [LAC 33:III.507.H.1.a] Baghouses: Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of inspection. Keep records of maintenance inspections on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
- 175 [LAC 33:III.507.H.1.a] Filter vents: Visible emissions recordkeeping by electronic or hard copy daily. Keep records of visible emission checks on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
- 176 [LAC 33:III.507.H.1.a] Filter vents: Visible emissions monitored by visual inspection/determination daily. If visible emissions are observed, restore operation of the filter to its normal or usual manner of operation as expeditiously as practicable, but at a minimum within three working days, in accordance with good air pollution control practices for minimizing emissions.
 Which Months: All Year Statistical Basis: None specified
- 177 [LAC 33:III.509] Shall be equipped with a baghouse (> 99.9% control efficiency) - Determined as BACT for PM/PM10 - PSD-LA-742.

EQT 0020 S012A - Bottom Ash Silo and Day Bins

- Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average
- 178 [LAC 33:III.131.C] Particulate matter (10 microns or less) >= 99.9 % removal efficiency from filter manufacturer's certification.
- 179 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified
- 180 [LAC 33:III.507.H.1.a] Particulate matter (10 microns or less) >= 99.9 % removal efficiency from filter manufacturer's certification.
- 181 [LAC 33:III.507.H.1.a] Which Months: All Year Statistical Basis: None specified
- 182 [LAC 33:III.507.H.1.a] Filter vents: Visible emissions recordkeeping by electronic or hard copy daily. Keep records of visible emission checks on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
- Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit and therefore must be conducted at greater than 80% of maximum permitted capacity. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 5 - Determination of particulate matter emissions from stationary sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Air Quality Assessment Division. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- 183 [LAC 33:III.507.H.1.a] Baghouses (including gaskets): Equipment/operational data monitored by technically sound method upon each occurrence of process unit shut down or whenever visible emission checks indicate maintenance may be necessary. Change elements as necessary.
 Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 160213 - Lake Charles Cogeneration LLC - Lake Charles Gasification Facility
 Activity Number: PER200080001
 Permit Number: 0520-00411-V0
 Air - Title V Regular Permit Initial

EQT 0020 S012A - Bottom Ash Silo and Day Bins

- 184 [LAC 33:III.507.H.1.a] Filter vents: Visible emissions monitored by visual inspection/determination daily. If visible emissions are observed, restore operation of the filter to its normal or usual manner of operation as expeditiously as practicable, but at a minimum within three working days, in accordance with good air pollution control practices for minimizing emissions.
 Which Months: All Year Statistical Basis: None specified
 Baghouses: Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of inspection. Keep records of maintenance inspections on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
 Shall be equipped with a baghouse (\Rightarrow 99.9% control efficiency) - Determined as BACT for PM/PM10 - PSD-LA-742.

EQT 0021 S012B - Sand Silo and Sand Day Bins

- 187 [LAC 33:III.1311.C] Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average
 Particulate matter (10 microns or less) \geq 99.9 % removal efficiency from filter manufacturer's certification.
 Which Months: All Year Statistical Basis: None specified
 Baghouses (including gaskets): Equipment/operational data monitored by technically sound method upon each occurrence of process unit shut down or whenever visible emission checks indicate maintenance may be necessary. Change elements as necessary.
 Which Months: All Year Statistical Basis: None specified
 Filter vents: Visible emissions recordkeeping by electronic or hard copy daily. Keep records of visible emission checks on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
 Baghouses: Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of inspection. Keep records of maintenance inspections on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
 Particulate matter (10 microns or less) \geq 99.9 % removal efficiency from filter manufacturer's certification.
 Which Months: All Year Statistical Basis: None specified
 Filter vents: Visible emissions monitored by visual inspection/determination daily. If visible emissions are observed, restore operation of the filter to its normal or usual manner of operation as expeditiously as practicable, but at a minimum within three working days, in accordance with good air pollution control practices for minimizing emissions.
 Which Months: All Year Statistical Basis: None specified
 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit and therefore must be conducted at greater than 80% of maximum permitted capacity. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 5 - Determination of particulate matter emissions from stationary sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Air Quality Assessment Division. As required by LAC 33:II.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
 Shall be equipped with a baghouse (\Rightarrow 99.9% control efficiency) - Determined as BACT for PM/PM10 - PSD-LA-742.

SPECIFIC REQUIREMENTS

AI ID: 160213 - Lake Charles Cogeneration LLC - Lake Charles Gasification Facility
Activity Number: PER20080001
Permit Number: 0520-00411-V0
Air - Title V Regular Permit Initial

EQT 0022 ED013A - Rod Mill Air Eductors

196 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average

Shall utilize good equipment design and proper operation to minimize PM/PM10 emissions . Determined as BACT - PSD-LA-742.

EQT 0023 ED013B - Rod Mill Air Eductors

198 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average
 Shall utilize good equipment design and proper operation to minimize PM/PM10 emissions . Determined as BACT - PSD-LA-742.

EQT 0024 ED013C - Rod Mill Air Eductors

200 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average
 Shall utilize good equipment design and proper operation to minimize PM/PM10 emissions . Determined as BACT - PSD-LA-742.

EQT 0025 ED013D - Rod Mill Air Eductors

202 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average
 Shall utilize good equipment design and proper operation to minimize PM/PM10 emissions . Determined as BACT - PSD-LA-742.

EQT 0026 FV014A - Filter Vacuum Pump Discharge

204 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average
 Shall utilize good equipment design and proper operation to minimize PM/PM10 emissions . Determined as BACT - PSD-LA-742.

EQT 0027 FV014B - Filter Vacuum Pump Discharge

206 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average

SPECIFIC REQUIREMENTS

AI ID: 160213 - Lake Charles Cogeneration LLC - Lake Charles Gasification Facility
Activity Number: PER20080001
Permit Number: 0520-00411-V0
Air - Title V Regular Permit Initial

EQT 0027 FV014B - Filter Vacuum Pump Discharge

207 [LAC 33:III.509]

Shall utilize good equipment design and proper operation to minimize PM/PM10 emissions - Determined as BACT - PSD-LA-742.

EQT 0028 SA015A - Wet Sulfuric Acid Unit

- 208 [40 CFR 64.3.b.3] Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation using procedures that take into account manufacturer's specifications. [40 CFR 64.3(b)(3)]
- 209 [40 CFR 64.4.c] Comply with the submitted implementation plan and schedule for installing, testing and performing any other appropriate activities prior to use of the monitoring, if any of the approved monitoring in this permit requires installation, testing, or other necessary activities prior to use of the monitoring for purposes of 40 CFR 64. Implement monitoring as expeditiously as practicable after approval of the monitoring pursuant to 40 CFR 64.6, but in no case shall the period for completing installation and beginning operation of the monitoring exceed 180 days after approval of the permit. [40 CFR 64.4(e)]
- An excursion or exceedance is defined as voltage, liquid flow rates, or hydrogen peroxide concentration below the range determined during the compliance tests. [40 CFR 64.6(c)(2)]
- 210 [40 CFR 64.6.c.2] Submit Notification: Submit to DEQ within 5 working days upon the establishment or reestablishment of any exceedance or excursion level, for purposes of responding to and reporting exceedances or excursions under 40 CFR 64.7 and 64.8. [40 CFR 64.6(c)(2)]
- 211 [40 CFR 64.6.c.2] Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
- 212 [40 CFR 64.7.a] Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]
- 213 [40 CFR 64.7.b] Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]
- 214 [40 CFR 64.7.d.1] Submit written notification: Due to the Office of Environmental Compliance within 72 hours upon identifying a failure to achieve compliance with the emission limitation for which, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(e)]
- 215 [40 CFR 64.7.e] Five times of excursion within any six consecutive month period is the threshold limit of excursions or exceedances at which implementation of a QIP is required. [40 CFR 64.8(a)]
- 216 [40 CFR 64.8.a] Maintain a written Quality Improvement Plan (QIP) and have it available for inspection. Include initially in the plan procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, modify the plan to include procedures for conducting one or more of the actions specified in 40 CFR 64.8(b)(2)(i) through (b)(2)(v), as appropriate. [40 CFR 64.8(b)]
- 217 [40 CFR 64.8.b] Develop and implement a Quality Improvement Plan (QIP) as expeditiously as practicable. [40 CFR 64.8(c)]
- 218 [40 CFR 64.8.c] Submit notification: Notify the DEQ if the period for completing the improvements contained in the Quality Improvement Plan (QIP) exceeds 180 days from the date on which the need to implement the QIP was determined. [40 CFR 64.8(c)]

SPECIFIC REQUIREMENTS

AI ID: 160213 - Lake Charles Cogeneration LLC - Lake Charles Gasification Facility
 Activity Number: PER20080001
 Permit Number: 0520-00411-V0
 Air - Title V Regular Permit Initial

EQT 0028 SA015A - Wet Sulfuric Acid Unit

- 220 [40 CFR 64.8.d] Make reasonable changes to the Quality Improvement Plan (QIP) as the DEQ requires, upon any determination pursuant to 40 CFR 64.7(d)(2) subsequent to implementation. [40 CFR 64.8(d)]
- 221 [40 CFR 64.9.a] Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(ii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable [40 CFR 64.9(a)] Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
- 222 [40 CFR 64.9.b.1] Monitoring data recordkeeping by electronic or hard copy at the approved frequency. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- 223 [40 CFR 64.9.b.1] Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- 224 [40 CFR 64.9.b.1] Recordkeeping: voltage from the WESP once every four hours.
- 225 [40 CFR 64] Monitor Voltage from the WESP once every four hours.
- 226 [40 CFR 64] Hydrogen Peroxide Concentration in Liquids monitored by technically sound method once every four hours.
- 227 [40 CFR 64] Which Months: All Year Statistical Basis: None specified Hydrogen Peroxide Concentration in Liquids recordkeeping by electronic or hard copy once every four hours.
- 228 [40 CFR 64] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 229 [LAC 33:III.110.B] Which Months: All Year Statistical Basis: None specified Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 230 [LAC 33:III.131.C] Which Months: All Year Statistical Basis: Six-minute average Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.
- 231 [LAC 33:III.1513.C] Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack tests purpose is to demonstrate compliance with the emission limits of this permit and therefore must be conducted at greater than 80% of maximum permitted capacity. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources, Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources, and Method 8 - Determination of sulfuric acid mist and sulfur dioxide emissions from stationary sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Air Quality Assessment Division. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.

SPECIFIC REQUIREMENTS

AI ID: 160213 - Lake Charles Cogeneration LLC - Lake Charles Gasification Facility
 Activity Number: PER20080001
 Permit Number: 0520-00411-V0
 Air - Title V Regular Permit Initial

EQT 0028 SA015A - Wet Sulfuric Acid Unit

- 233 [LAC 33:III.507.H.1.a] Conduct a performance/emissions test: Due within five years, plus or minus 6 months, of when the previous performance test was performed, or within 180 days after the issuance of a permit renewal, whichever comes later. The stack test's purpose is to demonstrate compliance with the emission limits of this permit and therefore must be conducted at greater than 80% of permitted maximum capacity. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources; Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources; and Method 8 - Determination of sulfuric acid mist and sulfur dioxide emissions from stationary sources. Use alternate stack tests methods only with the prior approval of the Office of Environmental Assessment. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
 Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division.
- Flow rate monitored by flow rate monitoring device once every four hours.
 Which Months: All Year Statistical Basis: None specified
- Flow rate recordkeeping by electronic or hard copy once every four hours.
 Shall be equipped with a condenser, a wet electrostatic precipitator (WESP), and a hydrogen peroxide scrubber to maintain maximum H₂SO₄ emissions to 0.15 lbs/ton of sulfuric acid produced (daily average) - Determined as BACT - PSD-LA-742.
- Shall be equipped with selective catalytic reduction (SCR) to minimize NOX emissions - Determined as BACT - PSD-LA-742.
- Shall be equipped with a wet electrostatic precipitator (WESP), and a hydrogen peroxide scrubber to minimize PM/PM10 emissions - Determined as BACT - PSD-LA-742.
- Shall utilize good design and proper operation to minimize CO emissions - Determined as BACT - PSD-LA-742.
- Shall be equipped with a hydrogen peroxide scrubber to maintain maximum SO₂ emissions to 0.50 lbs/ton of sulfuric acid produced (daily average) - Determined as BACT - PSD-LA-742.

EQT 0029 SA015B - Wet Sulfuric Acid Unit

- Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation using procedures that take into account manufacturer's specifications. [40 CFR 64.3(b)(3)]
- Comply with the submitted implementation plan and schedule for installing, testing and performing any other appropriate activities prior to use of the monitoring, if any of the approved monitoring in this permit requires installation, testing, or other necessary activities prior to use of the monitoring for purposes of 40 CFR 64. Implement monitoring as expeditiously as practicable after approval of the monitoring pursuant to 40 CFR 64.6, but in no case shall the period for completing installation and beginning operation of the monitoring exceed 180 days after approval of the permit. [40 CFR 64.4(e)]
- Submit Notification: Submit to DEQ within 5 working days upon the establishment or reestablishment of any exceedance or excursion level, for purposes of responding to and reporting exceedances or excursions under 40 CFR 64.7 and 64.8. [40 CFR 64.6(c)(2)]
- An excursion or exceedance is defined as voltage, liquid flow rates, or hydrogen peroxide concentration below the range determined during the compliance tests. [40 CFR 64.6(c)(2)]
- An excursion or exceedance is defined as voltage, liquid flow rates, or hydrogen peroxide concentration below the range determined during the compliance tests. [40 CFR 64.6(c)(2)]

SPECIFIC REQUIREMENTS

AI ID: 160213 - Lake Charles Cogeneration LLC - Lake Charles Gasification Facility
Activity Number: PER20080001
Permit Number: 0520-00411-V0
Air - Title V Regular Permit Initial

EQT 0029 SA015B - Wet Sulfuric Acid Unit

- Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
- Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]
- Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]
- Submit written notification Due to the Office of Environmental Compliance within 72 hours upon identifying a failure to achieve compliance with the emission limitation for which, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(e)]
- Submit written notification Due to the Office of Environmental Compliance within 72 hours upon identifying a failure to achieve compliance with the emission limitation for which, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(e)]
- Five times of excursion within any six consecutive month period is the threshold limit of excursions or exceedances at which implementation of a QIP is required. [40 CFR 64.8(a)]
- Five times of excursion within any six consecutive month period is the threshold limit of excursions or exceedances at which implementation of a QIP is required. [40 CFR 64.8(a)]
- Maintain a written Quality Improvement Plan (QIP) and have it available for inspection. Include initially in the plan procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, modify the plan to include procedures for conducting one or more of the actions specified in 40 CFR 64.8(b)(2)(i) through (b)(2)(v), as appropriate. [40 CFR 64.8(b)]
- Develop and implement a Quality Improvement Plan (QIP) as expeditiously as practicable. [40 CFR 64.8(c)]
- Submit notification: Notify the DEQ if the period for completing the improvements contained in the Quality Improvement Plan (QIP) exceeds 180 days from the date on which the need to implement the QIP was determined. [40 CFR 64.8(c)]
- Make reasonable changes to the Quality Improvement Plan (QIP) as the DEQ requires, upon any determination pursuant to 40 CFR 64.7(d)(2) subsequent to implementation. [40 CFR 64.8(d)]
- Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]
- Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]

SPECIFIC REQUIREMENTS

AI ID: 160213 - Lake Charles Cogeneration LLC - Lake Charles Gasification Facility
 Activity Number: PER20080001
 Permit Number: 0520-00411-V0
 Air - Title V Regular Permit Initial

EQT 0029 SA015B - Wet Sulfuric Acid Unit

- 260 [40 CFR 64.9.b.] Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- 261 [40 CFR 64.9.b.] Monitoring data recordkeeping by electronic or hard copy at the approved frequency. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- 262 [40 CFR 64] Hydrogen Peroxide Concentration in Liquids recordkeeping by electronic or hard copy once every four hours.
- 263 [40 CFR 64] Hydrogen Peroxide Concentration in Liquids monitored by technically sound method once every four hours.
- Which Months: All Year Statistical Basis: None specified
- 264 [40 CFR 64] Monitor Voltage from the WESP once every four hours.
- Recordkeeping: voltage from the WESP once every four hours.
- Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- Which Months: All Year Statistical Basis: None specified
- Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- Which Months: All Year Statistical Basis: Six-minute average
- Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.
- Flow rate monitored by flow rate monitoring device once every four hours.
- 265 [40 CFR 64]
- 266 [LAC 33:III.1101.B]
- 267 [LAC 33:III.1311.C]
- 268 [LAC 33:III.1513.C]
- 269 [LAC 33:III.507.H.1.a]
- 270 [LAC 33:III.507.H.1.a]
- 271 [LAC 33:III.507.H.1.a]
- Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.
- Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shakedown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit and therefore must be conducted at greater than 80% of maximum permitted capacity. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources, Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources, and Method 8 - Determination of sulfuric acid mist and sulfur dioxide emissions from stationary sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Air Quality Assessment Division. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division.

SPECIFIC REQUIREMENTS

AI ID: 160213 - Lake Charles Cogeneration LLC - Lake Charles Gasification Facility
Activity Number: PER20080001
Permit Number: 0520-00411-V0
Air - Title V Regular Permit Initial

EQT 0029 SA015B - Wet Sulfuric Acid Unit

272 [LAC 33:III.507.H.1.a] Conduct a performance/emissions test: Due within five years, plus or minus 6 months, of when the previous performance test was performed, or within 180 days after the issuance of a permit renewal, whichever comes later. The stack test's purpose is to demonstrate compliance with the emission limits of this permit and therefore must be conducted at greater than 80% of permitted maximum capacity. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources; Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources; and Method 8 - Determination of sulfuric acid mist and sulfur dioxide emissions from stationary sources. Use alternate stack tests methods only with the prior approval of the Office of Environmental Assessment. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.

Flow rate recordkeeping by electronic or hard copy once every four hours.
 Shall be equipped with a hydrogen peroxide scrubber to maintain maximum SO₂ emissions to 0.50 lbs/ton of sulfuric acid produced (daily average) - Determined as BACT - PSD-LA-742.
 Shall be equipped with a wet electrostatic precipitator (WESP), and a hydrogen peroxide scrubber to minimize PM/PM10 emissions - Determined as BACT - PSD-LA-742.

Determined as BACT - PSD-LA-742.
 Shall be equipped with selective catalytic reduction (SCR) to minimize NO_x emissions - Determined as BACT - PSD-LA-742.

Shall be equipped with a condenser, a wet electrostatic precipitator (WESP), and a hydrogen peroxide scrubber to maintain maximum H₂SO₄ emissions to 0.15 lbs/ton of sulfuric acid produced (daily average) - Determined as BACT - PSD-LA-742.
 Shall utilize good design and proper operation to minimize CO emissions - Determined as BACT - PSD-LA-742.

EQT 0030 CT016 - Cooling Water Towers

279 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average
 Shall be equipped with mist eliminators - Determined as BACT for PM/PM10 - PSD-LA-742.

EQT 0031 MS017A - ASU Molecular Sieve Regeneration

281 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average
 Shall utilize good equipment design and proper operation to minimize PM/PM10 emissions - Determined as BACT - PSD-LA-742.

EQT 0032 MS017B - ASU Molecular Sieve Regeneration

283 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average

SPECIFIC REQUIREMENTS

AI ID: 160213 - Lake Charles Cogeneration LLC - Lake Charles Gasification Facility
 Activity Number: PER20080001
 Permit Number: 0520-00411-V0
 Air - Title V Regular Permit Initial

EQT 0032 MS017B - ASU Molecular Sieve Regeneration

284 [LAC 33:II.509] Shall utilize good equipment design and proper operation to minimize PM/PM10 emissions - Determined as BACT - PSD-LA-742.

EQT 0038 TK024 - Methanol De-Inventory Tank

- 285 [40 CFR 60.112b.a.3.(ii)] VOC, Total $\geq 95\%$ reduction efficiency using a closed vent system and control device. Subpart Kb. [40 CFR 60.112b(a)(3)(ii)]
 Which Months: All Year Statistical Basis: None specified
 Equip with a closed vent system and control device. Design the closed vent system to collect all VOC vapors and gases discharged from the storage vessel and operate with no detectable emissions. Subpart Kb. [40 CFR 60.112b(a)(3)]
 Equip with a closed vent system and control device as specified in 40 CFR 60.112b(a)(3). Subpart Kb. [40 CFR 60.112b(b)(1)]
 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116b(a). Subpart Kb. [40 CFR 60.116b(b)]
 VOL storage data recordkeeping by electronic or hard copy at the approved frequency. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years.
 Subpart Kb. [40 CFR 60.116b(c)]
 Submit notification: Due within 30 days when the maximum true vapor pressure of the liquid exceeds the respective maximum true vapor pressure values for each volume range. Subpart Kb. [40 CFR 60.116b(d)]
 Equip with a submerged fill pipe.
- 290 [40 CFR 60.116b.d] VOC, Total $\geq 95\%$ control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
 Which Months: All Year Statistical Basis: None specified
- 291 [LAC 33:III.2103.B] Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.
 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
- 292 [LAC 33:III.2103.E]
- 293 [LAC 33:III.2103.H.3]
- 294 [LAC 33:III.2103.H.3]
- 295 [LAC 33:III.2103.I.]

EQT 0039 TK025 - Fresh Methanol Storage Tank

- 296 [40 CFR 60.112b.a.3.(ii)] VOC, Total $\geq 95\%$ reduction efficiency using a closed vent system and control device. Subpart Kb. [40 CFR 60.112b(a)(3)(ii)]
 Which Months: All Year Statistical Basis: None specified
 Equip with a closed vent system and control device. Design the closed vent system to collect all VOC vapors and gases discharged from the storage vessel and operate with no detectable emissions. Subpart Kb. [40 CFR 60.112b(a)(3)].
 Equip with a closed vent system and control device as specified in 40 CFR 60.112b(a)(3). Subpart Kb. [40 CFR 60.112b(b)(1)]

SPECIFIC REQUIREMENTS

AI ID: 160213 - Lake Charles Cogeneration LLC - Lake Charles Gasification Facility
 Activity Number: PER2008001
 Permit Number: 0520-00411-V0
 Air - Title V Regular Permit Initial

EQT 0039 TK025 - Fresh Methanol Storage Tank

- 299 [40 CFR 60.116b.b] Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116b(a). Subpart Kb. [40 CFR 60.116b(b)]
 VOL storage data recordkeeping by electronic or hard copy at the approved frequency. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years.
 Subpart Kb. [40 CFR 60.116b(c)]
 Submit notification: Due within 30 days when the maximum true vapor pressure of the liquid exceeds the respective maximum true vapor pressure values for each volume range. Subpart Kb. [40 CFR 60.116b(d)]
 Equip with a submerged fill pipe.
- 300 [40 CFR 60.116b.c] VOC, Total >= 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
 Which Months: All Year Statistical Basis: None specified
- 301 [40 CFR 60.116b.d] Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.
 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

EQT 0040 TK027A - Sulfuric Acid Storage Tank

- 307 [LAC 33:III.509] Shall be equipped with a fix roof, a submerged fill pipe in combination with nitrogen blanket - Determined as BACT for H2SO4 - PSD-LA-742.

EQT 0041 TK027B - Sulfuric Acid Storage Tank

- 308 [LAC 33:III.509] Shall be equipped with a fix roof, a submerged fill pipe in combination with nitrogen blanket - Determined as BACT for H2SO4 - PSD-LA-742.

EQT 0042 TK027C - Sulfuric Acid Storage Tank

- 309 [LAC 33:III.509] Shall be equipped with a fix roof, a submerged fill pipe in combination with nitrogen blanket - Determined as BACT for H2SO4 - PSD-LA-742.

EQT 0043 TK027D - Sulfuric Acid Storage Tank

- 310 [LAC 33:III.509] Shall be equipped with a fix roof, a submerged fill pipe in combination with nitrogen blanket - Determined as BACT for H2SO4 - PSD-LA-742.

EQT 0044 TK027E - Sulfuric Acid Storage Tank

SPECIFIC REQUIREMENTS

AI ID: 160213 - Lake Charles Cogeneration LLC - Lake Charles Gasification Facility
 Activity Number: PER20080001
 Permit Number: 0520-00411-Y0
 Air - Title V Regular Permit Initial

EQT 0044 TK027E - Sulfuric Acid Storage Tank

- 311 [LAC 33:III.509] Shall be equipped with a fix roof, a submerged fill pipe in combination with nitrogen blanket - Determined as BACT for H₂SO₄ - PSD-LA-742.

EQT 0045 TK027F - Sulfuric Acid Storage Tank

- 312 [LAC 33:III.509] Shall be equipped with a fix roof, a submerged fill pipe in combination with nitrogen blanket - Determined as BACT for H₂SO₄ - PSD-LA-742.

EQT 0048 TK030 - Gasoline Tank

- 313 [LAC 33:III.2103.A] Equip with a submerged fill pipe.
 314 [LAC 33:III.2103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a.e.
 315 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

FUG 0001 FUG - Fugitive Emissions

- 316 [LAC 33:III.509] No additional control is determined as BACT for CO - PSD-LA-742.

UNF 0001 AI160213 - Lake Charles Gasification Facility

- 317 [40 CFR 60] All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.
 318 [40 CFR 61] All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A.
 319 [40 CFR 70.5(a)(iii)] Submit Title V permit application for renewal: Due 6 months before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
 320 [LAC 33:III.1103] Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited.
 321 [LAC 33:III.1109.B] Outdoor burning of waste material or other combustible material is prohibited.
 322 [LAC 33:III.1303.B] Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
 323 [LAC 33:III.2113.A] Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.
 324 [LAC 33:III.219] Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
 325 [LAC 33:III.2901.D] Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited.

SPECIFIC REQUIREMENTS

AI ID: 160213 - Lake Charles Cogeneration LLC - Lake Charles Gasification Facility
Activity Number: PER20080001
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- 326 [LAC 33:III.2901.F] If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G.
- 327 [LAC 33:III.501.C.2] No construction, modification, or operation of a facility which ultimately may result in an initiation or increase in emission of air contaminants as defined in LAC 33:III.111 shall commence until the permit application has been approved, an appropriate permit fee paid (in accordance with LAC 33:III.Chapter 2), and a permit (certificate of approval) has been issued by the permitting authority.
- 328 [LAC 33:III.501.C.4] Operate the source in accordance with all terms and conditions of this permit.
- 329 [LAC 33:III.501.C.6] Comply with terms and conditions incorporated in the permit to ensure compliance with all state and federally applicable air quality requirements and standards at the source, and such other permit terms and conditions as determined by the permitting authority to be reasonable and necessary.
- 330 [LAC 33:III.507.A.1.a] Any major source as defined in LAC 33:III.502 is designated a Part 70 source and is required to obtain a permit which will meet the requirements of LAC 33:III.507.
- 331 [LAC 33:III.507.E.4] Any permit application to renew an existing permit shall be submitted at least six months prior to the date of permit expiration, or at such earlier time as may be required by the existing permit or approved by the permitting authority. In no event shall the application for permit renewal be submitted more than 18 months before the date of permit expiration.
- 332 [LAC 33:III.509.1.1] No major stationary source or major modification to which the requirements of this Part apply shall begin actual construction without a permit issued under this Section.
- 333 [LAC 33:III.509.J.1] A major stationary source or major modification shall meet each applicable emissions limitation under the Louisiana State Implementation Plan and each applicable emissions standard and standard of performance under the Louisiana New Source Performance Standards (LNSPS) and Louisiana Emission Standards for Hazardous Air Pollutants (LESHAP) and Sections 111 and 112 of the Clean Air Act.
- 334 [LAC 33:III.509.J.2] A new major stationary source shall apply best available control technology for each pollutant subject to regulation under this Section that it would have the potential to emit in significant amounts.
- 335 [LAC 33:III.509.J.3] A major modification shall apply best available control technology for each pollutant subject to regulation under this Section which would result in a significant net emissions increase at the source. This requirement applies to each proposed emissions unit at which a net emissions increase in the pollutant would occur as a result of a physical change or change in the method of operation in the unit.
- 336 [LAC 33:III.509] Comply with the requirements of PSD-LA-742. This permit includes provisions of the Prevention of Significant Deterioration (PSD) review from Permit PSD-LA-742.
- 337 [LAC 33:III.5105.A.1] Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard.
- 338 [LAC 33:III.5105.A.2] Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109.B.
- 339 [LAC 33:III.5105.A.3] Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard.
- 340 [LAC 33:III.5105.A.4] Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A.
- 341 [LAC 33:III.5107.A.2] Include a certification statement with the annual emission report and revisions to any emission report that attests that the information contained in the emission report is true, accurate, and complete, and that is signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official.

SPECIFIC REQUIREMENTS

AI ID: 160213 - Lake Charles Cogeneration LLC - Lake Charles Gasification Facility
 Activity Number: PER20080001
 Permit Number: 0520-00411-y0
 Air - Title V Regular Permit Initial

UNF 0001 AI160213 - Lake Charles Gasification Facility

Submit Annual Emissions Report (TEDI): Due annually, by the 31st of March unless otherwise directed by DEQ, to the Office of Environmental Assessment in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3.

Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but in no case later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere that results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property).

Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:I.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:I.3923.

Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:I.3931.

Submit notification in the manner provided in LAC 33:I.3923.

Submit written report: Due by certified mail to SPOC within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through B.3. Include the information specified in LAC 33:III.5107.B.4.a.i through B.4.a.viii.

Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, IF THEY CAN BE MEASURED AND CAN BE RELIABLY QUANTIFIED USING GOOD ENGINEERING PRACTICES, to DEQ along with the annual emissions report and where otherwise specified.. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge.

Submit notification in writing: Due to SPOC not more than 60 days nor less than 30 days prior to initial start-up. Submit the anticipated date of the initial start-up.

Submit notification in writing: Due to SPOC within 10 working days after the actual date of initial start-up of the source. Submit the actual date of initial start-up of the source.

Submit permit application: Due prior to commencement of construction, reconstruction, or modification of the source, for new or modified sources. Do not commence construction, reconstruction, or modification of any source required to be permitted under LAC 33:III.Chapter 5 prior to approval by the permitting authority.

Submit permit application: Due by the date established by the permitting authority. The permit application is for any source for which grandfathered status has expired due to a change in ownership.

Any application form, report, or compliance certification submitted under this Chapter shall contain certification by a responsible official of truth, accuracy, and completeness. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information contained in the application are true, accurate, and complete.

342 [LAC 33:III.5107.A]

343 [LAC 33:III.5107.B.1]

344 [LAC 33:III.5107.B.2]

345 [LAC 33:III.5107.B.3]

346 [LAC 33:III.5107.B.4]

347 [LAC 33:III.5107.B.5]

348 [LAC 33:III.5113.A.1]

349 [LAC 33:III.5113.A.2]

350 [LAC 33:III.5117.A.1]

351 [LAC 33:III.5117.A.3]

352 [LAC 33:III.5117.B.1]

SPECIFIC REQUIREMENTS

AIR ID: 160213 - Lake Charles Cogeneration LLC - Lake Charles Gasification Facility
Activity Number: PER20080001
Permit Number: 0520-00411-V0
Air - Title V Regular Permit Initial

UNF 0001 AIR0213 - Lake Charles Gasification Facility

- 353 [LAC 33:III.517.C] Submit supplementary facts or corrected information: Due promptly upon becoming aware of failure to submit or incorrect submittal regarding permit applications. In addition, provide information as necessary to address any requirements that become applicable to the source after the date of filing a complete application but prior to release of a proposed permit.
- 354 [LAC 33:III.517.D] Submit applications for permits in accordance with forms and guidance provided by the DEQ. At a minimum, each permit application submitted under LAC 33:III Chapter 5 shall contain the information specified in LAC 33:III.517.D, subparagraphs 1-18.
- 355 [LAC 33:III.517.E] In addition to those elements listed under LAC 33:III.517.D, include in each application pertaining to a Part 70 source the information specified in LAC 33:III.517.E, Subparagraphs 1-8.
- 356 [LAC 33:III.5609.A.1.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 5 when the administrative authority declares an Air Pollution Alert.
- 357 [LAC 33:III.5609.A.2.b] Activate the preplanned strategy listed in LAC 33:III.5611.Table 6 when the administrative authority declares an Air Pollution Warning.
- 358 [LAC 33:III.5609.A.3.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 7 when the administrative authority declares an Air Pollution Emergency.
- 359 [LAC 33:III.5609.A] Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency.
- 360 [LAC 33:III.5901.A] Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611.Tables 5, 6, and 7.
- 361 [LAC 33:III.5907] Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901.
- 362 [LAC 33:III.5911.A] Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur.
- 363 [LAC 33:III.5911.C] Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III Chapter 59, whichever is later.
- 364 [LAC 33:III.919.D] Include the information listed in LAC 33:III.5911.B, and submit to the Office of Environmental Compliance.
- 365 [LAC 33:III.5911.C] Submit amended registration: Due to the Office of Environmental Compliance within 60 days after the information in the submitted registration is no longer accurate.
- 366 [LAC 33:III.5911.C] Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment.
- 367 [LAC 33:III.5911.C] Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.